

## INFORME DE BÚSQUEDA DE PATENTES

**N° de solicitud:** NC2016/0000097

**CRITERIOS PARA LA BÚSQUEDA (Anexar pantallazo o reporte en PDF, junto con los boléanos utilizados\*. Para el caso de secuencias, anexar alineamientos)**

**Palabras clave utilizadas**

Human Anti-vista antibody  
vista or vsir or b7h5 or pd-1h or pd-l3 antibody  
V-domain Immunoglobulin Suppressor of T cell Activation

**CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA**

**CIP:** C07K 16/28, A61K 39/395, A61P 35/00, G01N 33/574.

### DOCUMENTOS CONSIDERADOS RELEVANTES (documentos patentes, literatura no patente, etc...)

| Informes/Base de datos | N° de solicitud/<br>Autor** | Fecha de<br>Publicación/Presentación<br>(DD/MM/AAAA) | Reiv. afectadas (Con indicación, si procede, de las partes relevantes o números de secuencias) | Categorías especiales de los documentos citados*** |
|------------------------|-----------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------|
| SIPI (Obligatoria)     | NA                          |                                                      |                                                                                                |                                                    |
| EPO                    | WO2011120013                | 29/09/2011                                           | 1 - 27                                                                                         | X                                                  |
|                        | Wang 2011                   |                                                      |                                                                                                | A                                                  |
|                        | Wolff 2007                  |                                                      |                                                                                                | A                                                  |
|                        | Ladjemi 2010                |                                                      |                                                                                                | A                                                  |
|                        | Konishi 2004                |                                                      |                                                                                                | A                                                  |
|                        | Topalian 2012               |                                                      |                                                                                                | A                                                  |
| Patbase                | US2014056892                | 27/02/2014                                           |                                                                                                | P                                                  |
| Google                 | Wang 2011                   |                                                      |                                                                                                |                                                    |
| NCBI Seq 37 - 45       | NA                          |                                                      |                                                                                                |                                                    |
| Lens SEQ 37 - 45       | NA                          |                                                      |                                                                                                |                                                    |

\*\*\* Categorías especiales de documentos citados:

“A” documento que define el estado general de la técnica no considerado como particularmente relevante.

“E” solicitud de patente o patente anterior pero publicada en la fecha de presentación internacional o en fecha posterior.

“P” documento publicado antes de la fecha de presentación internacional pero con posterioridad a la fecha de prioridad reivindicada.

“X” documento particularmente relevante; la invención reivindicada no puede considerarse nueva o que implique una actividad inventiva por referencia al documento aisladamente considerado.

“Y” documento particularmente relevante; la invención reivindicada no puede considerarse que implique una actividad inventiva cuando el documento se asocia a otro u otros documentos de la misma naturaleza, cuya combinación resulta evidente para un experto en la materia.

\*\*\*\* Indicar entre paréntesis la Autoridad que realizó la búsqueda o el informe preliminar Ejs: EPO, JP, INAPI.

#### Literatura no patente

\*\*Se incluye entre otros, toda la referencia de la literatura no patente.

Wang, L., Rubinstein, R., Lines, J. L., Wasiuk, A., Ahonen, C., Guo, Y., ... Noelle, R. J. (2011). VISTA, a novel mouse Ig superfamily ligand that negatively regulates T cell responses. The Journal of Experimental Medicine, 208(3), 577–592. <http://doi.org/10.1084/jem.20100619>.

**Fecha del reporte de búsqueda:**

06/12/2017



Menu ▾ Search ▾ History ▾ Session ▾ Folder ▾ Order

| # | Search query                                                  | Results |
|---|---------------------------------------------------------------|---------|
| 3 | V-domain Immunoglobulin Suppressor of T cell Activation and 2 | 3       |
| 2 | 1 and antibody                                                | 1205    |
| 1 | vista OR "pd-l1" OR "pd-l3"                                   | 29822   |

1) Family number: 55411253 (US2014056892A)

Similar • Translate • Full-text • Status • Citations

**VISTA**g FOR TREATMENT OF AUTOIMMUNE, ALLERGIC AND INFLAMMATORY DISORDERS

**Abstract:** Source: US2014056892A The present invention relates to a fusion proteins comprising regulatory T cell protein, **VISTA** (V-domain Immunoglobulin Suppressor of T cell Activation (PD-L3)) and an immunoglobulin protein (Ig). The invention also provides the use of **VISTA** polypeptides, multimeric **VISTA** polypeptides, **VISTA**-conjugates (e.g. **VISTA**-g), and **VISTA** antagonists for the treatment of autoimmune disease, allergy, and inflammatory conditions.

**Probable Assignee:** KING S COLLEGE LONDON

**Earliest Publication Date:** 20131227



2) Family number: 33587749 (US2008287358A)

Similar • Translate • Full-text • Status • Citations

REGULATORY T CELL MEDIATOR PROTEINS AND USES THEREOF

**Abstract:** Source: US2008287358A The present invention relates to novel regulatory T cell proteins. One protein, designated **PD-L3**, resembles members of the **PD-L1** family, and co-stimulates alphaCD3 proliferation of T cells in vitro. A second, TNF-like, protein has also been identified as being upregulated upon alphaCD3/alphaGITR stimulation. This protein has been designated T<sup>TR</sup>-sTNE Proteins, **antibodies**, activated T cells and methods for using the same are disclosed.

**Probable Assignee:** DARTMOUTH COLLEGE

**Earliest Publication Date:** 20061102



3) Family number: 65808744 (WO17087784A1)

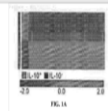
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TUMOR INFILTRATING LYMPHOCYTES FOR TREATMENT OF CANCER

**Abstract:** Tumor infiltrating lymphocytes (TILs) are white blood cells that are actively recruited to the tumor site to mount an immune response against tumor growth and metastasis. The disclosure provides methods for treating cancer that comprise steps of isolating CD8<sup>+</sup> T cells from a sample derived from a subject, expanding the CD8<sup>+</sup> T cells in the presence of interleukin-10, and administering the expanded CD8<sup>+</sup> T cells to the subject. Methods of treating cancer may be used in combination with inhibitors of the complement signaling pathway.

**Probable Assignee:** UNIV DUKE

**Earliest Publication Date:** 20170526



| Finder Lens para SEQ. 37 de la solicitud |                      |            |                  |              |
|------------------------------------------|----------------------|------------|------------------|--------------|
| Patent Number                            | SEQ ID NO            | Local % Id | Alignment Length | Score (bits) |
| <a href="#">US 2005 0147612 A1</a>       | <a href="#">100</a>  | 95.0%      | 120              | 229.1799927  |
| <a href="#">US 2008 0044419 A1</a>       | <a href="#">23</a>   | 95.0%      | 120              | 229.1799927  |
| <a href="#">US 2009 0175866 A1</a>       | <a href="#">23</a>   | 95.0%      | 120              | 229.1799927  |
| <a href="#">US 2009 0202547 A1</a>       | <a href="#">100</a>  | 95.0%      | 120              | 229.1799927  |
| <a href="#">US 7498416 B2</a>            | <a href="#">100</a>  | 95.0%      | 120              | 229.1799927  |
| <a href="#">JP 2005500034 A</a>          | <a href="#">100</a>  | 95.0%      | 120              | 229.1799927  |
| <a href="#">WO 2002 102854 A2</a>        | <a href="#">48</a>   | 95.0%      | 120              | 229.1799927  |
| <a href="#">JP 2008519028 A</a>          | <a href="#">60</a>   | 95.0%      | 120              | 229.1799927  |
| <a href="#">CA 2595398 A1</a>            | <a href="#">23</a>   | 95.0%      | 120              | 229.1799927  |
| <a href="#">CA 2450793 A1</a>            | <a href="#">100</a>  | 95.0%      | 120              | 229.1799927  |
| <a href="#">US 2011 0245108 A1</a>       | <a href="#">124</a>  | 94.2%      | 120              | 226.8679962  |
| <a href="#">JP 2008536473 A</a>          | <a href="#">124</a>  | 94.2%      | 120              | 226.8679962  |
| <a href="#">US 2010 0055033 A1</a>       | <a href="#">5</a>    | 93.3%      | 120              | 225.7129974  |
| <a href="#">US 2010 0055033 A1</a>       | <a href="#">7</a>    | 93.3%      | 120              | 225.7129974  |
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| <a href="#">JP 2009533028 A</a>          | <a href="#">5</a>    | 93.3%      | 120              | 225.7129974  |
| <a href="#">JP 2009533028 A</a>          | <a href="#">7</a>    | 93.3%      | 120              | 225.7129974  |
| <a href="#">WO 2007 118214 A2</a>        | <a href="#">5</a>    | 93.3%      | 120              | 225.7129974  |
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| <a href="#">JP 2011507519 A</a>          | <a href="#">11</a>   | 94.2%      | 121              | 224.9420013  |
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| <a href="#">US 2010 0291066 A1</a>       | <a href="#">3</a>    | 93.3%      | 120              | 224.5570068  |
| <a href="#">JP 2010538618 A</a>          | <a href="#">20</a>   | 93.3%      | 120              | 224.5570068  |
| <a href="#">JP 2011516423 A</a>          | <a href="#">194</a>  | 93.3%      | 120              | 224.5570068  |
| <a href="#">WO 2009 036157 A1</a>        | <a href="#">3</a>    | 93.3%      | 120              | 224.5570068  |
| <a href="#">WO 2009 121004 A2</a>        | <a href="#">177</a>  | 93.3%      | 120              | 224.5570068  |
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| <a href="#">US 2012 0134994 A1</a>       | <a href="#">6</a>    | 93.3%      | 120              | 223.7870026  |
| <a href="#">US 8101723 B2</a>            | <a href="#">6</a>    | 93.3%      | 120              | 223.7870026  |
| <a href="#">US 8603987 B2</a>            | <a href="#">6</a>    | 93.3%      | 120              | 223.7870026  |
| <a href="#">JP 2012508184 A</a>          | <a href="#">6</a>    | 93.3%      | 120              | 223.7870026  |
| <a href="#">CA 2733668 A1</a>            | <a href="#">6</a>    | 93.3%      | 120              | 223.7870026  |
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| <a href="#">US 2012 0316071 A1</a>       | <a href="#">1878</a> | 93.4%      | 122              | 223.7870026  |
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| <a href="#">JP 2013510164 A</a>          | <a href="#">1885</a> | 93.4%      | 122              | 223.7870026  |
| <a href="#">WO 2010 054007 A1</a>        | <a href="#">1532</a> | 93.4%      | 122              | 223.7870026  |
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| <a href="#">CA 2780221 A1</a>      | <a href="#">1878</a> | 93.4% | 122 | 223.7870026 |
| <a href="#">US 2003 0223994 A1</a> | <a href="#">26</a>   | 94.3% | 122 | 223.7870026 |
| <a href="#">US 2007 0196369 A1</a> | <a href="#">26</a>   | 94.3% | 122 | 223.7870026 |
| <a href="#">US 2010 0228007 A1</a> | <a href="#">26</a>   | 94.3% | 122 | 223.7870026 |
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| <a href="#">JP 2005533486 A</a>    | <a href="#">74</a>   | 94.3% | 122 | 223.7870026 |
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| <a href="#">EP 2621950 A2</a>      | <a href="#">64</a>   | 94.2% | 120 | 223.4019928 |
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| <a href="#">WO 2012 021841 A2</a>  | <a href="#">165</a> | 90.8% | 120 | 222.2460022 |
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| <a href="#">US 2011 0311546 A1</a> | <a href="#">3</a>   | 92.7% | 123 | 222.2460022 |
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| <a href="#">JP 2008520188 A</a>    | <a href="#">9</a>   | 92.7% | 123 | 222.2460022 |
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| <a href="#">KR 101089844 B1</a>    | <a href="#">3</a>   | 92.7% | 123 | 222.2460022 |
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| <a href="#">WO 2012 047583 A2</a>  | <a href="#">58</a>  | 92.7% | 123 | 222.2460022 |
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| <a href="#">US 2012 0114652 A1</a> | <a href="#">6</a>   | 92.6% | 121 | 221.4759979 |
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| <a href="#">WO 2012 047583 A2</a>  | <a href="#">61</a>  | 93.4% | 121 | 221.0899963 |
| <a href="#">US 2010 0310464 A1</a> | <a href="#">71</a>  | 95.5% | 120 | 221.0899963 |
| <a href="#">US 2013 0196379 A1</a> | <a href="#">71</a>  | 95.5% | 120 | 221.0899963 |

|                                    |                     |                     |                   |                     |
|------------------------------------|---------------------|---------------------|-------------------|---------------------|
| <a href="#">US 2013 0236535 A1</a> | <a href="#">71</a>  | 95.0%               | 120               | 221.0899963         |
| <a href="#">US 8461304 B2</a>      | <a href="#">71</a>  | 95.0%               | 120               | 221.0899963         |
| <a href="#">JP 2012529280 A</a>    | <a href="#">96</a>  | 95.0%               | 120               | 221.0899963         |
| <a href="#">WO 2010 142952 A2</a>  | <a href="#">71</a>  | 95.0%               | 120               | 221.0899963         |
| <a href="#">CA 2768207 A1</a>      | <a href="#">19</a>  | 88.9%               | 126               | 221.0899963         |
| <a href="#">US 2012 0070448 A1</a> | <a href="#">65</a>  | 93.3%               | 120               | 221.8609924         |
| <a href="#">US 2013 0295107 A1</a> | <a href="#">65</a>  | 93.3%               | 120               | 221.8609924         |
| <a href="#">US 8492119 B2</a>      | <a href="#">65</a>  | 93.3%               | 120               | 221.8609924         |
| <a href="#">WO 2010 126066 A1</a>  | <a href="#">117</a> | 93.3%               | 120               | 221.8609924         |
| <a href="#">CA 2764432 A1</a>      | <a href="#">65</a>  | 93.3%               | 120               | 221.8609924         |
| <a href="#">CA 2768207 A1</a>      | <a href="#">20</a>  | 90.5%               | 126               | 221.0899963         |
| <a href="#">JP 2011507519 A</a>    | <a href="#">14</a>  | 92.6%               | 122               | 221.0899963         |
| <a href="#">CA 2710373 A1</a>      | <a href="#">14</a>  | 92.6%               | 122               | 221.0899963         |
| <a href="#">WO 2012 137993 A1</a>  | <a href="#">44</a>  | 93.3%               | 120               | 220.7050018         |
| <a href="#">JP 2011507519 A</a>    | <a href="#">10</a>  | 92.6%               | 121               | 220.7050018         |
| <a href="#">CA 2710373 A1</a>      | <a href="#">10</a>  | 92.6%               | 121               | 220.7050018         |
| <a href="#">US 2009 0191205 A1</a> | <a href="#">45</a>  | 92.5%               | 120               | 220.7050018         |
| <a href="#">US 2013 0115206 A1</a> | <a href="#">45</a>  | 92.5%               | 120               | 220.7050018         |
| <a href="#">US 8158757 B2</a>      | <a href="#">45</a>  | 92.5%               | 120               | 220.7050018         |
|                                    |                     |                     |                   |                     |
|                                    |                     |                     |                   |                     |
| Finder Lens para Seq. 44           |                     |                     |                   |                     |
| <b>Patent Number</b>               | <b>SEQ ID NO</b>    | <b>Sequence Len</b> | <b>Local % Id</b> | <b>Score (bits)</b> |
| <a href="#">US 2009 0259026 A1</a> | <a href="#">133</a> | 108                 | 93.5%             | 202.2160034         |
| <a href="#">JP 2010518062 A</a>    | <a href="#">164</a> | 108                 | 93.5%             | 202.2160034         |
| <a href="#">WO 2008 096158 A2</a>  | <a href="#">133</a> | 108                 | 93.5%             | 202.2160034         |
| <a href="#">CA 2677069 A1</a>      | <a href="#">133</a> | 108                 | 93.5%             | 202.2160034         |
| <a href="#">JP 2008504356 A</a>    | <a href="#">330</a> | 108                 | 93.5%             | 202.2160034         |
| <a href="#">WO 2006 003388 A2</a>  | <a href="#">308</a> | 108                 | 93.5%             | 202.2160034         |
| <a href="#">EP 1777235 A1</a>      | <a href="#">308</a> | 108                 | 93.5%             | 202.2160034         |
| <a href="#">JP 2013056890 A</a>    | <a href="#">330</a> | 108                 | 93.5%             | 202.2160034         |
| <a href="#">JP 2013018785 A</a>    | <a href="#">330</a> | 108                 | 93.5%             | 202.2160034         |
|                                    |                     |                     |                   |                     |