

# VISTA Antibody

Catalog # ASC12122

## Product Information

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|-------------------|---------------------------|
| Application       | WB, IHC, IF, ICC, E       |
| Primary Accession | <a href="#">Q9H7M9</a>    |
| Other Accession   | <a href="#">NP_071436</a> |
| Host              | Rabbit                    |
| Clonality         | Polyclonal                |
| Isotype           | IgG                       |
| Clone Names       | VSIR                      |
| Calculated MW     | 33908                     |

## Additional Information

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|--------------------------|--|
| Gene ID                  | 64115  |
| Alias Symbol             | VSIR   |
| Other Names              | VISTA Antibody: VISTA molecule, VSIR, B7-H5, B7H5, GI24, PP2135, SISP1, DD1alpha, VISTA, C10orf54, chromosome 10 open reading frame 54, PD-1H, V-set immunoregulatory receptor, V-Type Immunoglobulin Domain-Containing Suppressor Of T-Cell Activation, Chromosome 10 Open Reading Frame 54 |
| Reconstitution & Storage | VISTA antibody can be stored at 4 °C for three months and -20 °C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.  |
| Precautions              | VISTA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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|-------------------|---|
| Name              | VSIR ( <a href="#">HGNC:30085</a> )   |
| Function          | Immunoregulatory receptor which inhibits the T-cell response (PubMed: <a href="#">24691993</a> ). May promote differentiation of embryonic stem cells, by inhibiting BMP4 signaling (By similarity). May stimulate MMP14- mediated MMP2 activation (PubMed: <a href="#">20666777</a> ).   |
| Cellular Location | Cell membrane; Single-pass type I membrane protein  |
| Tissue Location   | Expressed in spleen. Detected on a number of myeloid cells including CD11b monocytes, CD66b+ neutrophils, at low levels on CD4+ and CD8+ T-cells, and in a subset of NK cells. Not detected on B cells (at protein level). Expressed at high levels in placenta, spleen, plasma blood leukocytes, and lung. Expressed at moderate levels in lymph node, bone marrow, fat, uterus, and trachea Has |

## Background

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The lymphocyte activation gene-3 (LAG3) is a member of the immunoglobulin superfamily and binds MHC class II with high affinity (1), negatively regulating T-cell function and homeostasis (2). It is expressed in B, T, and NK cells, monocytes, and dendritic cells (3), and acts to regulate T cell expansion (4). LAG3 is also an important immune checkpoint protein, with anti-LAG3 antibodies activating T effector cells and affecting regulatory T cell functions. Furthermore LAG3 appears to act in a synergistic fashion with PD-1/PD-L1, suggesting that a dual antibody approach may prove useful in cancer immunotherapy (5).

## References

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Mayya V., et al . Quantitative phosphoproteomic analysis of T cell receptor signaling reveals system-wide modulation of protein-protein interactions. 2009, Sci. Signal. 2:RA46-RA46. Sakr M.A., et al., GI24 enhances tumor invasiveness by regulating cell surface membrane-type 1 matrix metalloproteinase. 2010, Cancer Sci. 101:2368-2374.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.