

# CD223 (LAG3) Polyclonal Antibody

Rabbit Anti Human Polyclonal Antibody

Catalog # ABV11713

## Product Information

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|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, FC            |
| Primary Accession | <a href="#">P18627</a> |
| Reactivity        | Human, Mouse           |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 57449                  |

## Additional Information

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|--------------------------|--------------------------------------------------------------------------------------------------------------------|
| Gene ID                  | 3902                                                                                                               |
| Positive Control         | IHC, FC, WB                                                                                                        |
| Application & Usage      | IHC-P: 1:10~50, FC: 1:25, WB: 1:1000                                                                               |
| Other Names              | Lymphocyte activation gene 3 protein, LAG-3, Protein FDC, CD223, LAG3, FDC                                         |
| Target/Specificity       | LAG3                                                                                                               |
| Antibody Form            | Liquid                                                                                                             |
| Appearance               | Colorless liquid                                                                                                   |
| Formulation              | PBS with 0.09% (W/V) sodium azide.                                                                                 |
| Handling                 | The antibody solution should be gently mixed before use.                                                           |
| Reconstitution & Storage | -20 °C                                                                                                             |
| Background Descriptions  |                                                                                                                    |
| Precautions              | CD223 (LAG3) Polyclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| Name     | LAG3 {ECO:0000303 PubMed:35761082, ECO:0000312 HGNC:HGNC:6476}                                                                                                                                                                                                                                                                                                                                                                                                   |
| Function | [Lymphocyte activation gene 3 protein]: Inhibitory receptor on antigen activated T-cells (PubMed: <a href="#">20421648</a> , PubMed: <a href="#">35761082</a> , PubMed: <a href="#">7805750</a> , PubMed: <a href="#">8647185</a> ). Delivers inhibitory signals upon binding to ligands, such as MHC class II, its main ligand present at the surface of antigen-presenting cells (APCs), and FGL1, which is secreted by hepatocytes and certain types of tumor |

cells (PubMed:[30580966](#), PubMed:[32920841](#), PubMed:[35761082](#), PubMed:[39671469](#), PubMed:[7589152](#), PubMed:[8647185](#), PubMed:[9159144](#)). Ligand-binding initiates a signaling that inhibits the T-cell receptor (TCR) in the immunological synapse, preventing T-cell activation (PubMed:[40101708](#)). Mechanistically, ligand-binding promotes (1) ubiquitination of the KIEELE motif, unleashing the RRFSALE motif from the membrane and (2) leading to the formation of condensates with the TCR component CD3E, thereby disrupting the association between CD3E and LCK and preventing TCR activation (PubMed:[40101708](#), PubMed:[40592325](#)). May inhibit antigen-specific T-cell activation in synergy with PDCD1/PD-1 (By similarity). Negatively regulates the proliferation, activation, effector function and homeostasis of both CD8(+) and CD4(+) T-cells (PubMed:[20421648](#), PubMed:[7805750](#), PubMed:[8647185](#)). Also mediates immune tolerance: constitutively expressed on a subset of regulatory T-cells (Tregs) and contributes to their suppressive function (By similarity). Also acts as a negative regulator of plasmacytoid dendritic cell (pDCs) activation (By similarity).

### Cellular Location

[Lymphocyte activation gene 3 protein]: Cell membrane; Single-pass type I membrane protein. Note=Clusters on the T-cell surface following ligand-binding

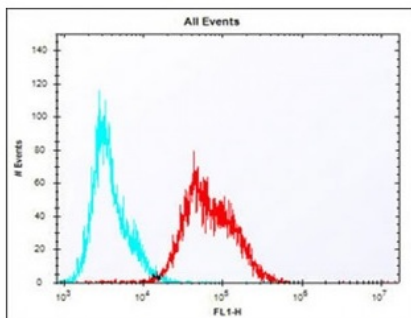
### Tissue Location

Primarily expressed in activated T-cells and a subset of natural killer (NK) cells.

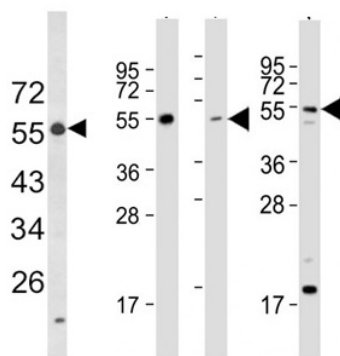
## Background

Lymphocyte-activation protein 3 belongs to Ig superfamily and contains 4 extracellular Ig-like domains. Involved in lymphocyte activation. Binds to HLA class-II antigens.

## Images



Lane1: K562 cell line lysates; Lane2: Human ovary lysate; Lane3: Mouse liver lysate; Lane4: A2058 whole cell lysate



Overlay histogram showing Jurkat cells stained with LAG 3 antibody (red line).