

CD223 Polyclonal Antibody

Catalog # AP73663

Product Information

| | |
|--------------------------|------------------------|
| Application | WB, E |
| Primary Accession | P18627 |
| Reactivity | Human, Rat, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 57449 |

Additional Information

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|---------------------------|--|
| Gene ID | 3902 |
| Other Names | LAG3; FDC; Lymphocyte activation gene 3 protein; LAG-3; Protein FDC; CD223 |
| Dilution | WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications. E~~N/A |
| Format | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| Storage Conditions | -20°C |

Protein Information

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:[20421648](#), PubMed:[35761082](#), PubMed:[7805750](#), PubMed:[8647185](#)). 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

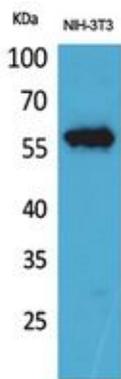
Tissue Location

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

Background

Involved in lymphocyte activation. Binds to HLA class-II antigens.

Images



Western Blot analysis of NIH-3T3 cells using CD223 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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