

CD223 Polyclonal Antibody
Catalog # AP73663**Specification****CD223 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	P18627
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

CD223 Polyclonal Antibody - Additional Information**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.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

CD223 Polyclonal Antibody - 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

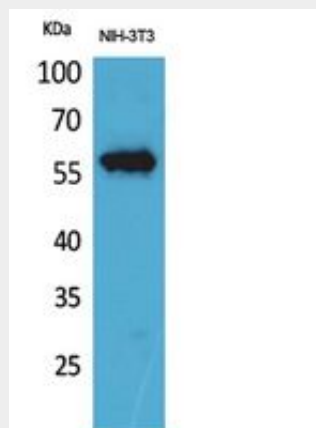
Primarily expressed in activated T-cells and a subset of natural killer (NK) cells.

CD223 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD223 Polyclonal Antibody - Images



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

CD223 Polyclonal Antibody - Background

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