

LAG3 antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22459a

Specification

LAG3 antibody (N-term) - Product Information

Application	WB,E
Primary Accession	P18627
Reactivity	Human, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Calculated MW	57449

LAG3 antibody (N-term) - Additional Information

Gene ID 3902

Other Names

Lymphocyte activation gene 3 protein, LAG-3, CD223, Secreted lymphocyte activation gene 3 protein, sLAG-3, LAG3 (HGNC:6476), FDC

Target/Specificity

This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from human.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

LAG3 antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LAG3 antibody (N-term) - 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 KIEEL 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

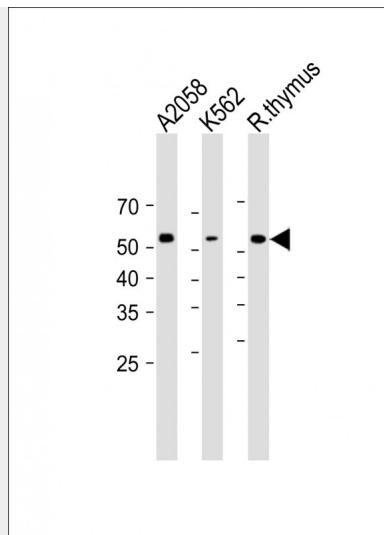
Primarily expressed in activated T-cells and a subset of natural killer (NK) cells.

LAG3 antibody (N-term) - 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](#)

LAG3 antibody (N-term) - Images



All lanes: Anti-LAG3 antibody (N-term) at 1:1000 dilution Lane 1: A2058 whole cell lysate Lane 2: K562 whole cell lysate Lane 3: Rat thymus lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 57 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

LAG3 antibody (N-term) - Background

Lymphocyte activation gene 3 protein: Inhibitory receptor on antigen activated T-cells (PubMed:20421648, PubMed:7805750, PubMed:8647185). Delivers inhibitory signals upon binding to ligands, such as FGL1 (By similarity). FGL1 constitutes a major ligand of LAG3 and is responsible for LAG3 T-cell inhibitory function (By similarity). Following TCR engagement, LAG3 associates with CD3-TCR in the immunological synapse and directly inhibits T-cell activation (By similarity). May inhibit antigen-specific T-cell activation in synergy with PDCD1/PD-1, possibly by acting as a coreceptor for 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). Binds MHC class II (MHC-II); the precise role of MHC-II-binding is however unclear (PubMed:8647185).

LAG3 antibody (N-term) - References

Triebel F., et al. J. Exp. Med. 171:1393-1405(1990).
Triebel F., et al. Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).
Scherer S.E., et al. Nature 440:346-351(2006).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.