

LAG3 Antibody [6D1]
Catalog # ASC12168**Specification****LAG3 Antibody [6D1] - Product Information**

Application	IHC-P, IF, ICC
Primary Accession	P18627
Other Accession	NP_002277
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k

LAG3 Antibody [6D1] - Additional Information

Gene ID	3902
Alias Symbol	LAG3
Other Names	
LAG3 Antibody: lymphocyte activating 3, LAG-3, CD223	

Reconstitution & Storage

LAG-3 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

LAG3 Antibody [6D1] is for research use only and not for use in diagnostic or therapeutic procedures.

LAG3 Antibody [6D1] - Protein Information

Name LAG3 ([HGNC:6476](#))

Synonyms FDC**Function**

Lymphocyte activation gene 3 protein: Inhibitory receptor on antigen activated T-cells (PubMed: [20421648](http://www.uniprot.org/citations/20421648), PubMed: [7805750](http://www.uniprot.org/citations/7805750), PubMed: [8647185](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/20421648), PubMed: [7805750](http://www.uniprot.org/citations/7805750), PubMed: [8647185](http://www.uniprot.org/citations/8647185))

target="_blank">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).

Cellular Location

[Lymphocyte activation gene 3 protein]: Cell membrane; Single-pass type I membrane protein

Tissue Location

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

LAG3 Antibody [6D1] - 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 [6D1] - Images

LAG3 Antibody [6D1] - Background

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.

LAG3 Antibody [6D1] - References

Huard B, Tournier M, Hercend T, et al. Lymphocyte-activation gene 3/major histocompatibility complex class II interaction modulates the antigenic response of CD4+ T lymphocytes. *Eur J Immunol* 1994; 24:3216-21. Triebel F. LAG-3: a regulator of T-cell and DC responses and its use in therapeutic vaccination. *Trends Immunol* 2003; 24:619-22. Workman CJ, Wang Y, El Kasmi KC, et al. LAG-3 regulates plasmacytoid dendritic cell homeostasis. *J Immunol*. 2009; 182:1885-91. Workman CJ, Vignali DA. The CD4-related molecule, LAG-3 (CD223), regulates the expansion of activated T cells. *Eur J Immunol* 2003; 33:970-9.