

**LAG3 Antibody [9F9]**  
Catalog # ASC12166**Specification****LAG3 Antibody [9F9] - Product Information**

Application	IHC-P, IF, ICC, E
Primary Accession	<a href="#">P18627</a>
Other Accession	<a href="#">NP_002277</a>
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a,k

**LAG3 Antibody [9F9] - Additional Information**

Gene ID	3902
Alias Symbol	LAG3
<b>Other Names</b>	
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 [9F9] is for research use only and not for use in diagnostic or therapeutic procedures.

**LAG3 Antibody [9F9] - 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</a>). 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:<a href="http://www.uniprot.org/citations/8647185" target="\_blank">8647185</a>).

#### 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 [9F9] - 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 [9F9] - Images

### LAG3 Antibody [9F9] - 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 [9F9] - 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.