10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LAG3 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP6987c

Specification

LAG3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P18627

LAG3 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 3902

Other Names
Lymphocyte activation gene 3 protein, LAG-3, Protein FDC, CD223, LAG3, FDC

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6987c was selected from the Center region of human LAG3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LAG3 Antibody (Center) Blocking Peptide - Protein Information

Name LAG3 (HGNC:6476)

Synonyms FDC

Function
Lymphocyte activation gene 3 protein: Inhibitory receptor on antigen activated T-cells (PubMed:7805750, PubMed:8647185, PubMed:20421648). 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:7805750, PubMed:8647185, PubMed:20421648). 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 (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

LAG3 Antibody (Center) Blocking Peptide - Images

LAG3 Antibody (Center) Blocking Peptide - Background

Lymphocyte-activation protein 3 belongs to Ig superfamily and contains 4 extracellular Ig-like domains.

LAG3 Antibody (Center) Blocking Peptide - References

Smyth,D.J., et.al., BMC Med. Genet. 7, 20 (2006)