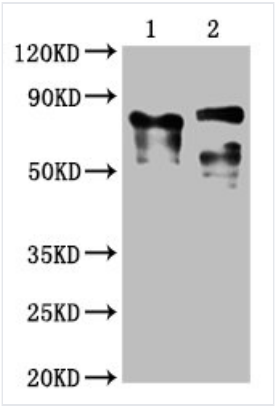
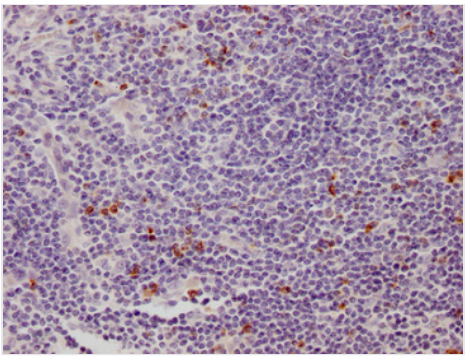
LAG3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

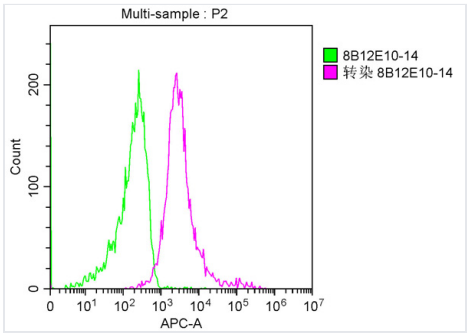
Product Name	LAG3, Monoclonal Antibody
Full Product Name	LAG3 Monoclonal Antibody
Product Gene Name	anti-LAG3 antibody
Product Synonym Names	CD223 antibody; CD223 antigen antibody; FDC protein antibody; LAG-3 antibody; Lag3 antibody; LAG3_HUMAN antibody; Lymphocyte activating 3 antibody; Lymphocyte activation gene 3 antibody; Lymphocyte activation gene 3 protein antibody; Protein FDC antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	8B12E10
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH7.4
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	525
OMIM	153337
3D Structure	ModBase 3D Structure for P18627
Immunogen Species	Human
Immunogen	Recombinant Human Lymphocyte activation gene 3 protein (29-450AA)
Conjugation	Non-conjugated
Product Categories/Family for anti-LAG3 antibody	Immunology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-LAG3 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-LAG3 antibody	WB: 1:1000-1:5000 IHC: 1:200-1:1000 FC: 1:50-1:200
Related Product Information for anti-LAG3 antibody	MBS9018366 is an antibody targeting LAG3. Also known as LAG3 Monoclonal Antibody. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-LAG3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-LAG3 antibody
Western BlotPositive WB detected in: 1 lane: Recombinant proteins with LAG3; 2 lane: 293F whole cell lysate transfected with LAG3All lanes: LAG3 antibody at 1:2000SecondaryGoat polyclonal to mouse IgG at 1/50000 dilutionPredicted band size: 76, 88 KDaObserved band size: 76, 88 KDaExposure time?5min



Immunohistochemistry (IHC) of anti-LAG3 antibody
IHC image of MBS9018366 diluted at 1:500 and staining in paraffin-embedded human appendix tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at 37 degree C Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.



Flow Cytometry (FC/FACS) of anti-LAG3 antibody
Overlay Peak curve showing A549 cells stained with MBS9018366 (red line) at 1:100. The cells were incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*106cells) for 1h at 4 degree C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/100 dilution for 30min at 4 degree C. Isotype control antibody (green line) was mouse IgG1 (1ug/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LAG3. It may not necessarily be applicable to this product.

NCBI GI #	251757512
NCBI GeneID	3902
NCBI Accession #	P18627.5
UniProt Primary Accession #	P18627
UniProt Secondary Accession #	Q7Z643; A8K7T9
UniProt Related Accession #	P18627
NCBI Official Full Name	Lymphocyte activation gene 3 protein
NCBI Official Synonym Full Names	lymphocyte-activation gene 3
NCBI Official Symbol	LAG3
NCBI Official Synonym Symbols	CD223
UniProt Protein Name	Lymphocyte activation gene 3 protein
UniProt Synonym Protein Names	Protein FDC; CD_antigen: CD223

Protein Family	Lymphocyte activation gene 3 protein
UniProt Gene Name	LAG3
UniProt Synonym Gene Names	FDC; LAG-3
UniProt Entry Name	LAG3_HUMAN
NCBI Protein Information	lymphocyte activation gene 3 protein
NCBI Summary for LAG3	Lymphocyte-activation protein 3 belongs to Ig superfamily and contains 4 extracellular Ig-like domains. The LAG3 gene contains 8 exons. The sequence data, exon/intron organization, and chromosomal localization all indicate a close relationship of LAG3 to CD4. [provided by RefSeq, Jul 2008]
UniProt Comments for LAG3	LAG3: Involved in lymphocyte activation. Binds to HLA class-II antigens. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 12p13.32 Cellular Component: integral to membrane; external side of plasma membrane Molecular Function: transmembrane receptor activity; antigen binding; MHC class II protein binding Biological Process: cell surface receptor linked signal transduction; negative regulation of interleukin-2 biosynthetic process; positive regulation of natural killer cell mediated cytotoxicity; negative regulation of T cell activation
Research Articles on LAG3	**1.** LAG-3 trafficking from lysosomal compartments to the cell surface is dependent on the cytoplasmic domain through protein kinase C signaling in activated T cells.
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