

LAG-3 recombinant antibody

LAG-3 Single Domain Antibody [2B11]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40976	Llama	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, ELISA

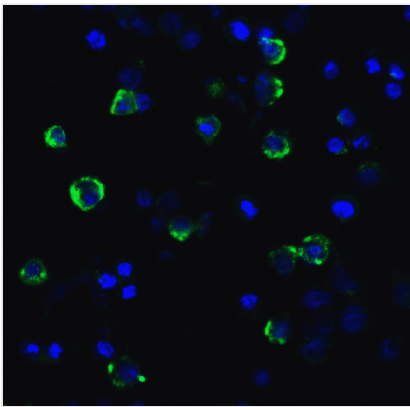
PRODUCT SYNONYMS

LAG-3; Monoclonal Recombinant Antibody; LAG-3 Single Domain Antibody [2B11]; LAG3 Antibody: lymphocyte activating 3; CD223; lymphocyte activating 3; LAG-3 recombinant antibody

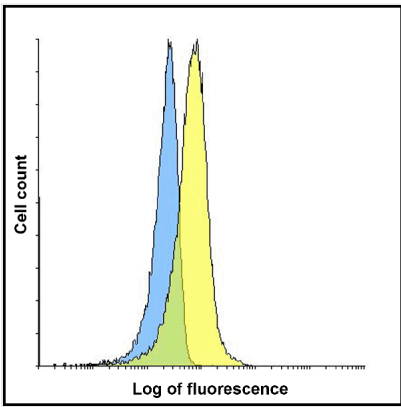
PRODUCT SPECIFICATIONS

Host	Llama
Reactivity	Human
Clonality	Monoclonal
Clone Number	2B11
Purity/Purification	LAG3 Antibody is affinity chromatography purified via Nickel column. Antibody is supplied as a His-tagged purified protein. It also contains a myc-tag for detection.
Form/Format	Liquid; LAG-3 Antibody is supplied in PBS.
Concentration	1mg/mL (varies by lot)
Applicable Applications for LAG-3 recombinant antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Immunogen	LAG3 antibody was raised against a recombinant protein corresponding to amino acids 23-434 of human LAG3.
Research Area	Immunology
NCBI Organism	Homo sapiens
Preparation and Storage	LAG3 antibody should be stored in working aliquots at -20 degree 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.

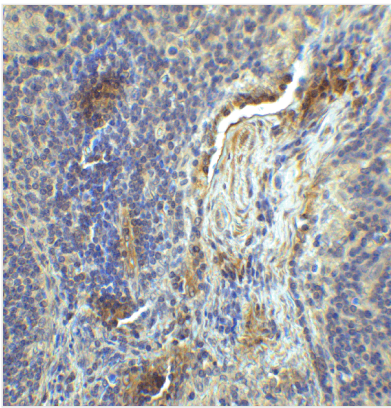
IMAGES



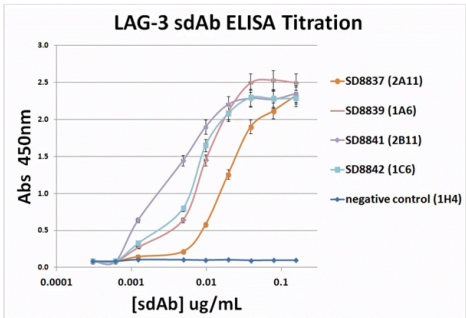
IF (Immunofluorescence)
Immunofluorescence of LAG-3 in transfected HEK293 cells with LAG-3 single domain antibody at 5ug/mL.



FCM/FACS (Flow Cytometry)
Flow cytometry analysis of LAG-3 overexpressing HEK293 cells using LAG-3 single domain antibody at 1ug/ml. Blue: Untransfected HEK293 cells. Yellow: LAG-3 overexpressing HEK293 cells.



IHC (Immunohistochemistry)
Immunohistochemistry of LAG-3 in human lymph node tissue with LAG-3 single domain antibody at 1ug/mL.



ELISA
Titration ELISA analysis of LAG-3 sdAbs to detect recombinant LAG-3 (extracellular domain) coated at 1 ug/mL. sdAbs are detected with a mouse mAb against a C-terminal myc-tag followed by a goat anti-mouse IgG-HRP conjugate.

ADDITIONAL INFORMATION

Related Product Information for LAG-3 recombinant antibody	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.
Product Categories/Family for LAG-3 recombinant antibody	Primary Antibodies
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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167614500
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NCBI GeneID	3902
NCBI Accession #	NP_002277
NCBI GenBank Nucleotide #	NM_002286.5
UniProt Accession #	P18627; Q7Z643; A8K7T9
Molecular Weight	Predicted: 55 kDa Observed: 54 kDa
NCBI Official Full Name	lymphocyte activation gene 3 protein
NCBI Official Synonym Full Names	lymphocyte activating 3
NCBI Official Symbol	LAG3
NCBI Official Synonym Symbols	CD223
NCBI Protein Information	lymphocyte activation gene 3 protein
UniProt Protein Name	Lymphocyte activation gene 3 protein
UniProt Gene Name	LAG3
UniProt Synonym Gene Names	FDC; LAG-3
UniProt Entry Name	LAG3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/lag-3-recombinant-antibody-clone-2b11-flow-cytometry-immunofluorescence-immunohistochemistry-elisa/40976>