

Mouse anti-Human Lymphocyte Activation Gene 3 (LAG-3) Monoclonal Antibody | anti-LAG-3 antibody

Lymphocyte Activation Gene 3 (LAG-3) (Negative Checkpoint Regulator)

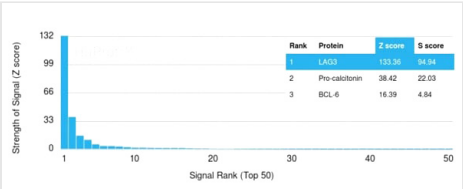
CATALOG # AAA215067	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA
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PRODUCT SYNONYMS

Lymphocyte Activation Gene 3 (LAG-3); Monoclonal Antibody; Lymphocyte Activation Gene 3 (LAG-3) (Negative Checkpoint Regulator); CD223; FDC protein; LAG-3; anti-LAG-3 antibody

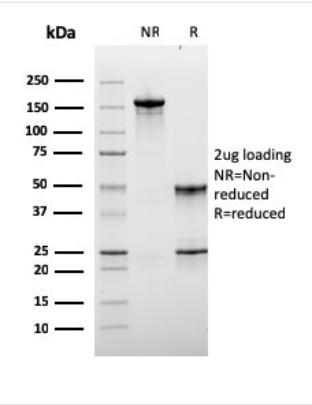
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	LAG3/3261
Specificity	LAG-3 (also called CD223) is a high affinity MHC class II ligand present on the surface of CD4+CD8+ T cells and NK cell, with shared homology in structure to CD4 molecules. It has a glutamic acid-proline (EP) repetitive sequence found in other functionally distinct mammalian, parasitic, and bacterial proteins that may influence a conserved biological function. LAG-3+CD4+CD8+ T cells can associate with the T cell receptor (TCR) and downregulate TCR signaling in vitro. LAG-3 inhibits CD4-dependent T cell function via its cytoplasmic domain. LAG-3 Lys-468 within a conserved 'KIEELE' motif is essential for interaction with downstream signaling molecules. Furthermore, as a checkpoint inhibitor target, it may be superior to CTLA-4 and PD-1 since both antibodies only activate effector T-cells, whereas an antagonist LAG-3 antibody can both activate T effector cells (by downregulating the LAG-3 inhibiting signal into pre-activated LAG-3+ cells) and inhibit induced (i.e. antigen-specific) Treg suppressive activity.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	525
Applicable Applications for anti-LAG-3 antibody	ELISA
Positive Control	Human tonsil or Hodgkin's lymphoma (IHC-P).
Immunogen	Recombinant full-length human LAG3 protein
Cellular Localization	Membrane.
Hu-chromosome Location	12p13.31
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using LAG-3 Mouse Monoclonal Antibody (LAG3/3261). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



SDS-PAGE
SDS-PAGE Analysis Purified Monospecific Mouse Monoclonal Antibody to LAG-3 (LAG3/3261). Confirmation of Integrity and Purity of Antibody.

ADDITIONAL INFORMATION

References	1. Andrews LP., et al. Immunol Rev. 2017 Mar;276(1):80-96. doi: 10.1111/immr.12519. 2. Demeure, C.E., et al. 2001. Eur. J. Cancer 37: 1709-171
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NCBI AND UNIPROT INFORMATION

NCBI GI #	251757512
NCBI GeneID	3902
UniProt Accession #	P18627
Molecular Weight	70kDa
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.