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

Mouse Monoclonal Antibody [Clone LAG3/7380]

Catalog No	Format	Size
3902-MSM8-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3902-MSM8-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3902-MSM8-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

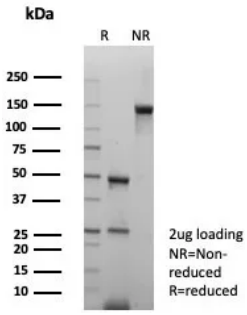
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

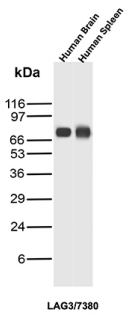
Clone	LAG3/7380
Gene Name	LAG3
Immunogen	Recombinant fragment (around aa300-500) of human LAG3 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	70kDa
Cellular Localization	Membrane.
Species Reactivity	Human
Positive Control	Human tonsil or Hodgkin s lymphoma (IHC-P). Brain or Spleen.

**Optimal dilution for a specific application should be determined.*

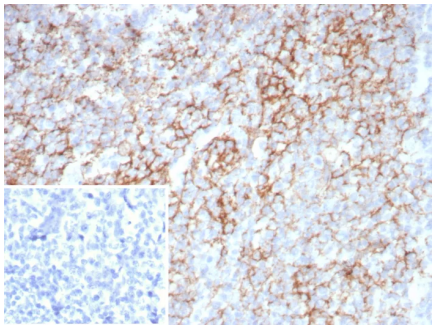
Product Images for Lymphocyte Activation Gene 3 (LAG-3) (Negative Checkpoint Regulator) Antibody



SDS-PAGE Analysis of Purified LAG-3 Mouse Monoclonal Antibody (LAG3/7380). Confirmation of Integrity and Purity of Antibody.



Western Blot Analysis of Human Brain and Human Spleen tissue lysates using KNG1 Mouse Monoclonal Antibody (LAG3/7380).



Formalin-fixed, paraffin-embedded human tonsil stained with LAG-3 Mouse Monoclonal Antibody (LAG3/7380). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

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.

Supplied As

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.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C.Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Immunology

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.