

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

Mouse Monoclonal Antibody [Clone LAG3/3261]

Catalog No	Format	Size
3902-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3902-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3902-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

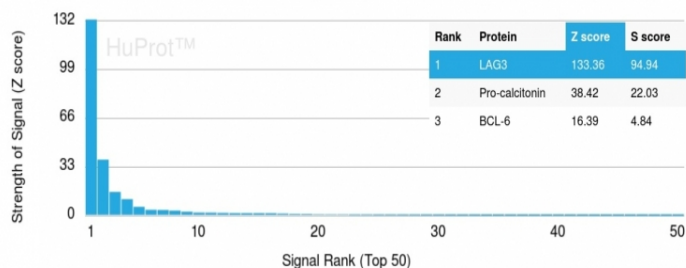
Applications	Tested Dillution	Note

### Product Details

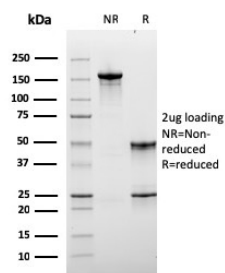
<b>Clone</b>	LAG3/3261
<b>Gene Name</b>	LAG3
<b>Immunogen</b>	Recombinant full-length human LAG3 protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2a / Kappa
<b>Mol. Weight of Antigen</b>	70kDa
<b>Cellular Localization</b>	Cell membrane, Secreted
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human tonsil or Hodgkin's lymphoma (IHC-P).

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

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



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

### 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.

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### 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.

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### 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.

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### 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.

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### Research Areas

Immunology

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