

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse LAG-3 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human LAG-3 is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 631501
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with mouse LAG-3 Ser23-Leu442 Accession # Q61790
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Flow Cytometry</p> <p>Detection of LAG-3 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were treated for 72 hours with 50 ng/mL PMA and 500 ng/mL Ca²⁺/ionomycin then stained with Rat Anti-Mouse LAG-3 Monoclonal Antibody (Catalog # MAB33281, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113).</p>	<p>Flow Cytometry</p> <p>Detection of LAG-3 in CTLL-2 mouse cytotoxic T cell line by Flow Cytometry CTLL-2 mouse cytotoxic T cell line were stained with Rat Anti-Mouse LAG-3 Monoclonal Antibody (Catalog # MAB33281, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram) followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113). View our protocol for Staining Membrane-associated Proteins.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

LAG-3 (Lymphocyte activation gene-3; CD223 in the human) is a member of the immunoglobulin superfamily (IgSF). The mature LAG-3 protein is a 496 amino acid (aa) membrane protein with a 421 aa extracellular region which contains four IgSF domains, a 21 aa transmembrane region and a 54 aa cytoplasmic region. LAG-3 shares < 20% amino acid sequence homology with CD4, but has similar structure and binds to MHC class II with higher affinity. The mouse LAG-3 extracellular region shares 69% aa sequence identity with human LAG-3.