

Human LAG-3 Antibody

Monoclonal Mouse IgG_{2A} Clone # 333210 Catalog Number: MAB2319

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human LAG-3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse LAG-3 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 333210
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human LAG-3 Leu23-Leu450 Accession # P18627
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.

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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.

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	Recommended Concentration	Sample	
Western Blot	1 μg/mL	Recombinant Human LAG-3 Fc Chimera (Catalog # 2319-L3)	

PREPA	NDAT	ION.	V NID	STOR	AGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	lise a manual defrost freezer and avoid reneated freeze-thaw cycles

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- 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

BACKGROUNE

LAG-3 (Lymphocyte activation gene-3), also known as CD223, 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. The extracellular domain of human and mouse LAG-3 share 69% amino acid sequence identity. LAG-3 and CD4 molecules share 20% aa sequence homology but have a similar structure (1, 2). Both molecules bind to MHC class II. LAG-3 binds to MHC class II with higher affinity compared to CD4. LAG-3 is an activation-induced molecule, expressed on activated T cells and NK cells, but not on resting T cells. Studies using LAG-3 domains are similar structure of the control of the contr

References:

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- 2. Baixeras, E. et al. (1992) J. Exp. Med 176:327.
- 3. Workman, C.J. and D.A. Vignali (2003) Eur. J. Immunol. 33:970.
- 4. Workman, C.J. et al. (2004) J. Immunol. 172:5450.
- 5. Huang, C.T. et al. (2004) Immunity 21:503
- 6. Andreae, S., Buisson, S. and F. Triebel (2003) Blood 102:2130.

