

LAG-3 Protein, Marmoset (HEK293, His)

Cat. No.:	HY-P78656
Synonyms:	LAG3; CD223; FDC
Species:	Marmoset
Source:	HEK293
Accession:	XP_002752325.1 (A18-H449)
Gene ID:	100415501
Molecular Weight:	Approximately 57 kDa

PROPERTIES

AA Sequence	<pre> A P V K P P Q P G A E V S E V W A Q E G A P A Q L P C S P T I P L Q D L S L L R R G G V T W Q H Q P D S G P P A P V P G H P P A P G P R A A A P S S S R P G P R R Y T V L S V A P G G L R S G R L P L Q P R V Q L E E R G R Q R G D F S L W L R P A R R A D A G E Y R A A V H L R D R T L S C H L R L R V G Q A S M T A S P A G S L R T S D W V I L N C S F S R P D R P A S V Q W F R G G G Q G R V P V Q E S P H H H L A E S F L F L P Q V S L M D S G P W G C T L T Y R D G F S V S I V Y N L T V L G L E P P T P L T V Y A G A G S R V E L P C R L P P G V G T Q P F L T A K W A P P G G G P D L L V P G D N G N F T L Q L E D V S Q A Q A G T Y T C H I C L Q G Q Q L S A T V T L A V I T V T P K S F G S P G S L G K L L C E V T P A S G Q E R F V W S P L D A P S Q R S F P G P W L E A Q D A Q L L S Q P W Q C Q L Y Q G E R L L G A A V Y F T A L S S P G A Q R S G R A P G A L H A G H </pre>
Biological Activity	Immobilized Madarex LAG-3 MAb Human IgG1 at 2 µg/mL (100 µL/well) can bind Marmoset LAG-3 His with a linear range of 10-237 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

LAG-3 (Lymphocyte activation gene 3) protein is an inhibitory receptor expressed on antigen-activated T-cells, delivering inhibitory signals upon binding to ligands such as FGL1. Serving as a major ligand of LAG3, FGL1 is responsible for LAG3's T-cell inhibitory function. Following T-cell receptor (TCR) engagement, LAG3 associates with CD3-TCR in the immunological synapse, directly inhibiting T-cell activation. LAG3 may synergistically inhibit antigen-specific T-cell activation with PDCD1/PD-1, possibly acting as a coreceptor for PD-1. It negatively regulates the proliferation, activation, effector function, and homeostasis of both CD8(+) and CD4(+) T-cells. Constitutively expressed on a subset of regulatory T-cells (Tregs), LAG3 contributes to their suppressive function, mediating immune tolerance. Additionally, LAG3 acts as a negative regulator of plasmacytoid dendritic cell (pDCs) activation and binds to MHC class II (MHC-II), possibly functioning as a ligand for MHC-II on antigen-presenting cells, thereby promoting APC activation/maturation and driving Th1 immune responses.

Caution: Product has not been fully validated for medical applications. For research use only.

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