

## LAG-3 Protein, Mouse (420a.a, HEK293, His)

Cat. No.:	HY-P72531
Synonyms:	Lymphocyte Activating 3; LAG3; LAG-3; CD223
Species:	Mouse
Source:	HEK293
Accession:	Q61790 (S23-L442)
Gene ID:	16768
Molecular Weight:	55-80 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>             S G P G K E L P V V    W A Q E G A P V H L    P C S L K S P N L D    P N F L R R G G V I              W Q H Q P D S G Q P    T P I P A L D L H Q    G M P S P R Q P A P    G R Y T V L S V A P              G G L R S G R Q P L    H P H V Q L E E R G    L Q R G D F S L W L    R P A L R T D A G E              Y H A T V R L P N R    A L S C S L R L R V    G Q A S M I A S P S    G V L K L S D W V L              L N C S F S R P D R    P V S V H W F Q G Q    N R V P V Y N S P R    H F L A E T F L L L              P Q V S P L D S G T    W G C V L T Y R D G    F N V S I T Y N L K    V L G L E P V A P L              T V Y A A E G S R V    E L P C H L P P G V    G T P S L L I A K W    T P P G G G P E L P              V A G K S G N F T L    H L E A V G L A Q A    G T Y T C S I H L Q    G Q Q L N A T V T L              A V I T V T P K S F    G L P G S R G K L L    C E V T P A S G K E    R F V W R P L N N L              S R S C P G P V L E    I Q E A R L L A E R    W Q C Q L Y E G Q R    L L G A T V Y A A E              S S S G A H S A R R    I S G D L K G G H L           </p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	LAG-3 (Lymphocyte activation gene 3) protein is an inhibitory receptor expressed on antigen-activated T-cells, delivering
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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.

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

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