

Active Recombinant Mouse IL15RA Protein, His-tagged

Cat. No. IL15RA-73M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IL-15R α protein dimer contains an IL-15R α extracellular domain (UniProt# Q60819) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus.
Species	Mouse
Source	HEK293T
ProteinLength	33-205 aa
Description	Interleukin 15 receptor alpha subunit (IL-15R α) is a transmembrane cytokine receptor. IL-15R α is also known as IL-15Ra, IL15Ra, cluster of differentiation 215 (CD215), and interleukin 15 receptor subunit alpha. IL-15R α contains an extracellular domain with a single sushi domain (short consensus repeat or complement control protein repeat), which is essential for interleukin 15 (IL-15) binding and IL-15R α function, a linker/hinge region, and a membrane-proximal proline-threonine-rich region followed by a transmembrane domain, and cytoplasmic domain. IL-15R α can homodimerize as well as heterodimerize with IL-2R β /CD122 and IL-2R γ /CD132. IL-15R α specifically binds IL-15 with very high affinity and is capable of binding IL-15 independently of other subunits. IL-15 stimulations of NK cells and T-cells has been shown to sustain long-lasting antitumor immunity, making IL-15R α an attractive therapeutic target for immunotherapies. Mouse IL-15R α , the murine homolog of human IL-15R α with conserved structural domains, is a species-specific tool essential for basic

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	research, translational research and preclinical studies.
Molecular Mass	53 kDa
Homodimer/Heterodimer	Homodimer
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for IL-15Rα-specific antibody and interleukin 15 (IL-15) ligand protein binding assays. Suggested Applications: SPR & BLI for IL-15Rα-specific antibody and IL-15 protein binding assays. Animal immunization, RUO.
Storage	At -80 centigrade
Storage Buffer	0.2µm filtered PBS, pH 7.4, no preservatives
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene ID	16169
Gene Name	Il15ra interleukin 15 receptor, alpha chain [Mus musculus (house mouse)]
Official Symbol	16169
Synonyms	IL15RA; interleukin 15 receptor, alpha chain; interleukin-15 receptor subunit alpha; IL-15RA; IL-15R-alpha; IL-15 receptor subunit alpha; AA690181;

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mRNA Refseq	NM_008358
Official Symbol 2	Il15ra
Gene ID 2	16169
Gene Name 2	Il15ra interleukin 15 receptor, alpha chain [Mus musculus (house mouse)]
mRNA Refseq 2	NM_008358
Protein Refseq 2	NP_032384
UniProt ID 2	Q8R5E4
Bioactivity-Antibody Binding	Immobilized mouse IL-15R α protein dimer, His-tag at 2 μ g/mL (100 μ L/well) can bind anti-mouse IL15R α monoclonal antibody with half maximal effective concentration (EC50) range of 12-47.8 ng/mL (QC tested).
Bioactivity-Ligand Binding	Immobilized mouse IL-15 protein at 2 μ g/mL (100 μ L/well) can bind mouse IL-15R α protein dimer, His-tag with half maximal effective concentration (EC50) range of 26.1-104.4 ng/mL (QC tested).
SDS-PAGE	MW: Molecular Weight marker reduced condition NR: IL-15R α dimer under non-reduced condition