

# Active Recombinant Mouse Il3ra Protein, Fc-tagged, Alexa Fluor 488 conjugated

**Cat. No.** Il3ra-5661MAF488    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Alexa Fluor 488 conjugated recombinant mouse Il3ra protein was expressed in Spodopterafrugiperdawith the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Mousell3ra Ser17-Lys331 (N-terminus).
<b>Species</b>	Mouse
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	17-331 a.a.
<b>Description</b>	Il3ra isa pleiotropic cytokine produced primarily by activated T cells or mast cells.Il3ra stimulates the proliferation and differentiation of hemopoietic cellsincluding the pluripotent hematopoietic stem cells as well as various lineage-committedcells. The biological effects of Il3ra on the various cell types are mediatedby the binding of Il3ra to specific cell surface receptor complexes. Thefunctional high-affinity IL-3 receptor is a heterodimer consisting of aligand binding $\alpha$ subunit and the $\beta$ subunit. The $\alpha$ subunit alone binds Il3rawith low affinity.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measuredby its ability to inhibit the IL-3-induced proliferation of NFS-60 mouse myeloidcells. The ED50 for this effect is typically 0.03-0.15 $\mu\text{g}/\text{mL}$ in the presenceof 2.5 $\mu\text{g}/\text{mL}$ Recombinant Mouse IL-3 R $\beta$ Fc Chimera and 2 ng/mL of

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	Recombinant Mouse IL3ra.
<b>Molecular Mass</b>	61.0 kDa (monomer); SDS-PAGE: 70-80kDa, reducing conditions.
<b>N-terminal Sequence Analysis</b>	Ser 17
<b>Endotoxin</b>	< 1.0 EU/ µg of the protein by the LAL method.
<b>Purity</b>	> 90 % by SDS-PAGE and analyzed by silver stain
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Concentration</b>	100 µg/mL
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Reconstitution</b>	100 µg/mL in sterile PBS
<b>Conjugation</b>	Alexa Fluor 488

## GENE INFORMATION

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<b>Gene Name</b>	Il3ra interleukin 3 receptor, alpha chain [ Mus musculus ]
<b>Official Symbol</b>	Il3ra
<b>Synonyms</b>	Il3ra; interleukin 3receptor, alpha chain; CD123; SUT-1; CDw123; interleukin-3 receptor subunit alpha; IL-3RA; IL-3R-alpha; Il-3 alpha subunit; IL-3R subunit alpha; IL-3 receptor alpha chain; IL-3 receptor subunit alpha; IL-3 receptor alpha SP2 isoform; interleukin-3 receptor class II alpha chain
<b>Gene ID</b>	16188
<b>mRNA Refseq</b>	NM_008369
<b>Protein Refseq</b>	NP_032395
<b>UniProt ID</b>	P26952

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