

IL-15/IL-15R Complex Monoclonal Antibody (GRW15PLZ), Functional Grade, eBioscience

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Functional Grade, eBioscience
Class	Monoclonal
Type	Antibody
Clone	GRW15PLZ
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_10548942

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	-	1 Publication
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	1 Publication

Product Specific Information

Description: The monoclonal antibody GRW15PLZ recognizes the mouse IL-15/IL-15 receptor complex. Interleukin-15 (IL-15) is a 14 kDa proinflammatory protein that has been shown to play a role in the activation of neutrophils, dendritic cells, and macrophages, and is essential to the development and survival of NK cells and CD8 T-cells. IL-15 activates Jak/Stat pathways by signaling through a heterotrimeric receptor. Two of the subunits of this receptor, beta and gamma, are shared with the IL-2 receptor, while the alpha subunit is unique to IL-15.

Despite the expression of IL-15 mRNA in many cell types, the secreted protein is rarely detectable in biological samples. Recent research suggests that IL-15 is retained inside the cell and is only secreted when in complex with its unique receptor, IL-15R alpha. The cytokine/receptor complex may stay bound to the cell surface, where it can be trans-presented to cells expressing the beta gamma subunits of the receptor, or may be secreted in a soluble form that lacks the transmembrane domain of the receptor. The soluble IL-15/IL-15R complex is produced by mouse dendritic cells, fibroblasts, and macrophages and demonstrates a 10-100-fold increase in agonistic activity over IL-15 alone.

The monoclonal antibody GRW15PLZ reacts with and inhibits the bioactivity of IL-15 and the IL-15/IL-15R complex.

Applications Reported: The monoclonal antibody GRW15PLZ reacts with and inhibits the bioactivity of IL-15 and the IL-15/IL-15R complex.

Applications Tested: The ND50 of GRW15PLZ, as determined by the inhibition of CTLL-2 cell proliferation, is 15-60 ng/mL in the presence of 6 ng/mL recombinant mouse IL-15/IL-15R complex, or 0.4-0.8 µg/mL in the presence of 120 ng/mL recombinant mouse IL-15. Neutralization dose will vary depending on assay method, cytokine concentration, and cell type.

Storage and handling: Use in a sterile environment.

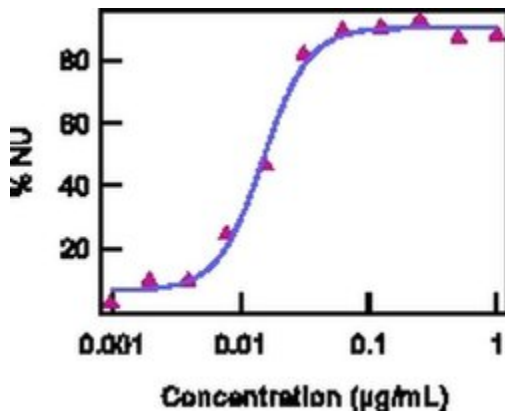
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

Product Images For IL-15/IL-15R Complex Monoclonal Antibody (GRW15PLZ), Functional Grade, eBioscience



IL-15/IL-15R Complex Antibody (16-8156-82) in FN

Neutralization of Mouse IL-15/IL-15R Complex Recombinant Protein activity as measured by proliferation of CTLL-2 cells.

Flow Cytometry (1)

Journal of immunology (Baltimore, Md. : 1950)

Tim-3/galectin-9 regulate the homeostasis of hepatic NKT cells in a murine model of nonalcoholic fatty liver disease.

Authors: Tang ZH,Liang S,Potter J,Jiang X,Mao HQ,Li Z

Species
Mouse

Dilution
Not Cited

Year
2013

Functional Assay (1)

The Journal of experimental medicine

Sustained effector function of IL-12/15/18-preactivated NK cells against established tumors.

"16-8156 was used in Flow cytometry/Cell sorting to reveal how CD4+ T cells have an essential role in sustained anti-tumour activity by NK cells linking adaptive and innate immunity."

Authors: Ni J,Miller M,Stojanovic A,Garbi N,Cerwenka A

Species
Mouse

Dilution
Not Cited

Year
2012

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