

IL-15 Monoclonal Antibody (AIO.3), Functional Grade, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, lambda
Class	Monoclonal
Type	Antibody
Clone	AIO.3
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_469238

Applications	Tested Dilution	Publications
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	3 Publications

Product Specific Information

Description: The AIO.3 antibody reacts with mouse IL-15. This is a neutralizing antibody. Mouse IL-15 is a 14-15 kDa factor, previously known as IL-T. IL-15 is produced by a variety of cells and has a role in the T cell-mediated immune response and the central nervous system. IL-15 binds to the beta and gamma subunits of the IL-2 receptor; however, these two cytokines have distinct biological activities. IL-15 is a specific maturation factor for NK cells and mimics the BM microenvironment for NK cell development in vitro. It is reported that IL-15 delivers an anti-apoptotic and survival signal for NK, T, and B cells.

Applications Reported: The AIO.3 antibody is reported for use in neutralization of mouse IL-15 bioactivity.

Applications Tested: The Functional Grade Purified AIO.3 antibody has been tested by LAL assay to verify low endotoxin levels of < 0.01 ng/ug and in bioassay for neutralization of mouse IL-15 bioactivity.

The AIO.3 antibody at less than or equal to 0.39 µg/mL has been found to inhibit by 50% the biological effects of 50 ng/mL mouse IL-15 (14-8151) in a CTLL2 proliferation assay. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols® section.

It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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.

4 References

Neutralization (1)

<p>PloS one</p> <p>IL-15 participates in the respiratory innate immune response to influenza virus infection.</p> <p>"16-7154 was used in Blocking experiments to suggest that local IL-15 deposits in the lung airways regulate the coordinated innate and adaptive immune responses to influenza infection."</p> <p>Authors: Verbist KC,Rose DL,Cole CJ,Field MB,Klonowski KD</p>	<p>Year</p> <p>2012</p> <p>Species</p> <p>Mouse</p>
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Functional Assay (3)

<p>mAbs</p> <p>Discovery and characterization of a novel humanized anti-IL-15 antibody and its relevance for the treatment of refractory celiac disease and eosinophilic esophagitis.</p> <p>"16-7154 was used in Functional assays to identify and characterise a humanised antibody against IL-15."</p> <p>Authors: Vicari AP,Schoepfer AM,Meresse B,Goffin L,Léger O,Josserand S,Guégan N,Yousefi S,Straumann A,Cerf-Bensussan N,Simon HU,Chvatchko Y</p>	<p>Year</p> <p>2019</p> <p>Species</p> <p>Mouse</p>
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<p>Cell research</p> <p>Anticancer immunotherapy by CTLA-4 blockade: obligatory contribution of IL-2 receptors and negative prognostic impact of soluble CD25.</p> <p>"16-7154 was used in in vivo experiments to provide the first immunologically relevant biomarker, namely elevated serum sCD25, that predicts resistance to CTLA-4 blockade in patients with melanoma."</p> <p>Authors: Hannani D,Vétizou M,Enot D,Rusakiewicz S,Chaput N,Klatzmann D,Desbois M,Jacquelot N,Vimond N,Chouaib S,Mateus C,Allison JP,Ribas A,Wolchok JD,Yuan J,Wong P,Postow M,Mackiewicz A,Mackiewicz J,Schadendorff D,Jaeger D,Zörnig I,Hassel J,Korman AJ,Bahjat K,Maio M,Cabralo L,Teng MW,Smyth MJ,Eggermont A,Robert C,Kroemer G,Zitvogel L</p>	<p>Year</p> <p>2015</p> <p>Species</p> <p>Mouse</p>
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