



Anti-Human IL-15

20150304ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	101-M10
Size:	500 µg
Lot. No.:	According to product label

Preparation: Monoclonal antibodies were produced in BALB/c x C57BL/6F1 mice using recombinant human IL-15 as the immunizing antigen. IgG1/K antibody was purified from ammonium sulfate precipitation followed by ion exchange.

Target Background

Synonyms (Target):	IL15; IL-15
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IL-15 is an immunomodulating cytokine that stimulates the proliferation of T lymphocytes and shares many biological properties with IL-2. IL-15 exerts its biological activities primarily on T cells. It is also essential in the development, survival and activation of NK cells. Increased expression of IL-15 has been implicated with rheumatoid arthritis, inflammatory bowel disease and diseases affiliated with retroviruses HIV and HTLV-I. Human IL-15 is biologically active on mouse cells as measured by the dose-dependent stimulation of the proliferation of mouse CTLL cells. Recombinant human IL-15 is a 13 kDa protein consisting of 114 amino acid residues.

Database References Target

Protein RefSeq:	NP_000576.1
Uniprot ID:	P40933
mRNA RefSeq:	NM_000585.4

Product Specifications

Species reactivity	Human
Cross reactivity	Human
Host	Mouse
Clonality	Monoclonal Antibody
Purification	ammonium sulfate precipitation followed by ion exchange chromatography
Immunogen	Recombinant human IL-15
Formulation	lyophilized
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: Lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least 2 weeks at 2 - 8 °C. Frozen aliquots are stable for at least 6 months when stored at -20 °C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

ELISA:

In a sandwich ELISA (assuming 100 µl/well), a concentration of 4 - 8 µg/ml of this antibody will detect at least 250 pg/ml of recombinant human IL-15 when used with biotinylated antigen affinity purified anti-human IL-15 as the detection antibody at a concentration of approximately 2 - 4 µg/ml.

Western Blot:

To detect hIL-15 by Western Blot analysis this antibody can be used at a concentration of 0.5 - 1 µg/ml (non-reducing) or at a concentration of 2 - 4 µg/ml (reducing). Used in conjunction with compatible secondary reagents the detection limit for recombinant hIL-15 is 2 - 4 ng/lane, under reducing or non-reducing conditions.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!