

Human IL-11 Antibody

Monoclonal Antibody

Product Information

Product No.: I-153
Clone: 22616
RRID: AB_2830547
Isotype: Mouse IgG2b
Storage: -20°C to -70°C

Product Description

Specificity:

Mouse Anti-Human Interleukin-11 (IL-11) (Clone 22616) recognizes an epitope on Human IL-11. This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype. This antibody shows 100% cross-reactivity with rIL-11 and no cross-reactivity with rhIL-6, rhIL-6 R, rhLIF, rhOSM, rhCT-1, rhCNTF, or rhCLC.

Background:

Interleukin 11 (IL-11) is a multifunctional cytokine isolated from bone marrow-derived stromal cells. It is a key regulator of multiple events in hematoopoiesis, most notably the stimulation of megakaryocyte maturation.¹ It is also known under the names Adipogenesis inhibitory factor (AGIF)² and Oprelvekin. IL-11 improves platelet recovery after chemotherapy-induced thrombocytopenia, induces acute phase proteins, modulates antigen-antibody responses, participate in the regulation of bone cell proliferation and differentiation and could be use as a therapeutic for osteoporosis. Besides from lymphopoietic/hematopoietic and osteotrophic properties, it has functions in many tissues such as brain, gut and testis.

Known Reactivity Species:

Human

Format:

Purified No Carrier Protein

Immunogen:

Purified Recombinant Human IL-11 (Accession # P20809)

Formulation

This monoclonal antibody has been 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 - 7.4 containing 5.0% w/v trehalose with no calcium, magnesium or preservatives present.

Endotoxin

<0.1 EU/µg as determined by the LAL method

Storage and Stability

The lyophilized antibody can be stored desiccated at -20°C to -70°C for up to twelve months. The reconstituted antibody can be stored for at least four weeks at 2-8°C. For long-term storage of the reconstituted antibody, aseptically aliquot into working volumes and store at -20°C to -70°C **in a manual defrost freezer**.

Avoid repeated freeze thaw cycles. No detectable loss of activity was observed after six months.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

ELISA Sandwich: This antibody is useful as the capture antibody in a sandwich ELISA. The suggested coating concentration is 2 - 8 µg/ml. A suitable detection antibody is PN:I-266 at a concentration of approximately 0.1-0.4 µg/ml. A suggested standard for this assay is PN:I-194.

Product Datasheet

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Western Blotting: To detect Human IL-11 this monoclonal antibody can be used at a concentration of 1 - 2 µg/ml. This monoclonal antibody should be used in conjunction with compatible second-step reagents such as PN:M114 and a chromogenic substrate such as PN:T343. The detection limit for Human IL-11 is 5 ng/lane under either reducing or non-reducing conditions. The sensitivity of detection may increase up to 50 fold when a chemiluminescent substrate is used. A suitable Western blotting control is PN:I-194.

Country of Origin

USA

References

1. Williams, DA. *et al.* (1990) *Proc. Natl. Acad. Sci. USA* **87**: 7512
2. Takiguchi, Y. *et al.* (1991) *FEBS Lett.* **283**: 199

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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