

Mouse IL-11 Alexa Fluor® 350-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 188520 Catalog Number: FAB418U

100 µg

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse IL-11 in direct ELISAs and Western blots. In direct ELISAs and Western blots, 10-20% cross-reactivity with recombinant human (rh) IL-11 is observed and no cross-reactivity with recombinant rat CNTF, recombinant mouse (rm)
Source	Monoclonal Rat IgG _{2A} Clone # 188520
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant mouse IL-11 Gly23-Leu199 Accession # P47873
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.		
Neutralization	Optimal dilution of this antibody should be experimentally determined.	
Western Blot	Optimal dilution of this antibody should be experimentally determined.	

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied	

BACKGROUND

Interleukin-11 is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1α-stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive murine plasmacytoma cell line T1165. IL-11 was also independently discovered as an adipogenesis inhibitory factor (AGIF). The mouse IL-11 cDNA encodes a 199 amino acid precursor polypeptide with a 22 amino acid hydrophobic signal that is processed proteolytically to generate the 177 amino acid mature protein. IL-11 contains no cysteine residues or potential glycosylation sites. IL-11 has multiple effects on both hematopoietic and nonhematopoietic cells. Many of the biological effects described for IL-11 overlapt hose for IL-6. *In vitro*, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G₀ period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell dependent development of specific immunoglobulin-secreting B cells. IL-11, in the presence of IL-3 or SCF, has also been shown to stimulate erythropoiesis. Among nonhematopoietic cell populations, IL-11, like IL-6 and LIF, can stimulate the synthesis of hepatic acute-phase proteins. Consistent with the *in vitro* functions of IL-11, *in vivo* administration of human IL-11 in normal mice was found to enhance the generation of Ig producing cells and platelets, and to increase the cycling rates of bone marrow-derived CFU-GM, BFU-E, and CFU-GEMM progenitors. IL-11 exerts its biological activities through binding to a specific high-affinity receptor complex consisting of an IL-11 receptor alpha chain and gp130.

PRODUCT SPECIFIC NOTICES

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