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Product datasheet for AM31178AF-N

CD130 (IL6ST) Mouse Monoclonal Antibody [Clone ID: B-S12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	B-S12
Applications:	FC, FN, IP, WB
Recommended Dilution:	**Western blot.** **Immunoprecipitation.** **Flow Cytometry.** **Functional Assay:** Activates cells carrying gp130. Induces gp130 activation, Jak 1, Jak 2, Stat 1 and Stat 3 phosphorylation.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Natural soluble gp130. **Hybridoma:** Myeloma X63/AG.8653 x Balb/c spleen cells.
Specificity:	Recognizes the soluble antigen. Recognizes the Gp130, common subunit for IL-6, IL-11, OSM, LIF, CNTF, CT-1 receptors, a 130-140 kDa protein.
Formulation:	Phosphate-buffered saline without Carrier and preservatives. This prodcut is sterile-filtered through 0.22 µm and treated to remove Endotoxins. State: Azide Free State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Ion Exchange Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 6 signal transducer

View online »

Database Link: Entrez Gene 3572 Human
P40189

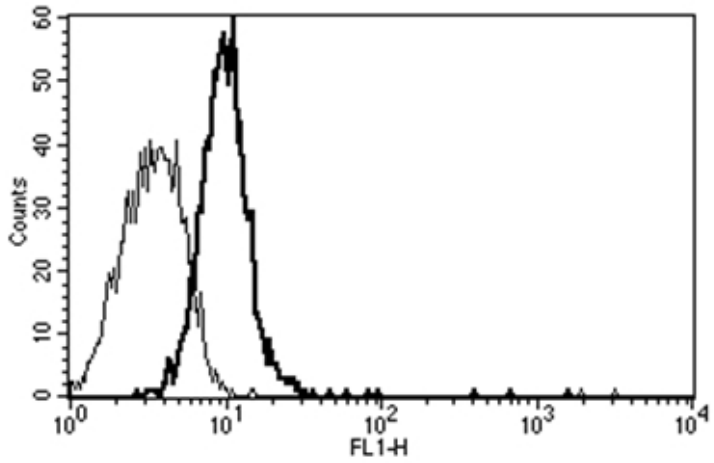
Background: IL-6 activates intracellular signaling through binding a receptor consisting of an 80 kDa ligand-binding protein (IL-6R) and a second protein of 130 kDa. IL-6 first binds to IL-6R which subsequently associates with a gp130 dimer. The active signaling complex consists of at minimum IL-6, IL-6R and a dimer of two gp130 proteins that are linked by a disulfide bond. A soluble form of IL-6R is generated by proteolytic cleavage of the membrane-bound precursor and can function as an agonistic molecule that can actively participate in cell-tocell signaling. The second subunit of the IL-6 complex, gp130, also functions as a component of several additional receptor complexes including leukemia inhibitory factor (LIF), oncostatin M (OSM), ciliary neurotrophic factor (CNTF) and IL-11. LIF binds to the LIF receptor with low affinity and to a complex of the LIF receptor and gp130 with high affinity, while OSM appears to bind to gp130 with low affinity and to a complex of gp130 and the LIF receptor with high affinity.

Synonyms: Interleukin-6 receptor subunit beta, IL-6R-beta, IL6 receptor beta

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

Product images:



A typical staining pattern with the B-S12 monoclonal antibody of Eahy 926 cell line.