

Anti-Human CD130 Functional Grade Purified

Catalog Number: 16-1307

Also Known As: gp130, IL-6 Receptor beta, IL-6RB

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human CD130 Functional Grade Purified

 **Catalog Number:** 16-1307

Clone: AN-HH1

Concentration: 1 mg/mL

Host/Isotype: Mouse IgG2a

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial

Description

The AN-HH1 monoclonal antibody reacts with human gp130, also known as CD130. gp130 is the common receptor subunit for the IL-6 family of cytokines, including IL-6, IL-11, IL-27, Oncostatin M, and LIF. gp130 is expressed on numerous cell types, including T cells, mast cells, and epithelial cells. Soluble forms of gp130 have been isolated from human serum samples. Upon ligand binding, gp130 signals via the JAK-STAT, MAPK, and PI3 kinase pathways. AN-HH1 is reported to neutralize the proliferative responses to LIF (leukemia inhibitory factor), CT-1 (cardiotrophin-1), OSM (oncostatin M), CLC (cardiotrophin-like cytokine), Interleukin (IL)-6, IL-11, and CNTF (ciliary neurotrophic factor), and neuropoietin.

Applications Reported

This AN-HH1 antibody has been reported for use in functional assays and flow cytometric analysis.

Applications Tested

This AN-HH1 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Derouet D, Rousseau F, Alfonsi F, Froger J, Hermann J, Barbier F, Perret D, Diveu C, Guillet C, Preisser L, Dumont A, Barbado M, Morel A, deLapeyrière O, Gascan H, Chevalier S. Neuropoietin, a new IL-6-related cytokine signaling through the ciliary neurotrophic factor receptor. *Proc Natl Acad Sci U S A*. 2004 Apr 6;101(14):4827-32. (**AN-HH1**, neutralizing, Pubmed)

Plun-Favreau H, Perret D, Diveu C, Froger J, Chevalier S, Lelièvre E, Gascan H, Chabbert M. Leukemia inhibitory factor (LIF), cardiotrophin-1, and oncostatin M share structural binding determinants in the immunoglobulin-like domain of LIF receptor. *J Biol Chem*. 2003 Jul 18;278(29):27169-79. (**AN-HH1**, FC, Pubmed)

Plun-Favreau H, Elson G, Chabbert M, Froger J, deLapeyrière O, Lelièvre E, Guillet C, Hermann J, Gauchat JF, Gascan H, Chevalier S. The ciliary neurotrophic factor receptor alpha component induces the secretion of and is required for functional responses to cardiotrophin-like cytokine. *EMBO J*. 2001 Apr 2;20(7):1692-703. (**AN-HH1**, neutralizing, Pubmed)

Narazaki M, Yasukawa K, Saito T, Ohsugi Y, Fukui H, Koishihara Y, Yancopoulos GD, Taga T, Kishimoto T. Soluble forms of the interleukin-6 signal-transducing receptor component gp130 in human serum possessing a potential to inhibit signals through membrane-anchored gp130. *Blood*. 1993 Aug 15;82(4):1120-6.

Related Products

16-4724 Mouse IgG2a K Isotype Control Functional Grade Purified