

PE anti-mouse CD130 (gp130) Antibody

Catalog# / Size	149403 / 25 µg 149404 / 100 µg
Clone	4H1B35
Regulatory Status	RUO
Other Names	GP130, IL6ST, IL-6RB, IL-6R-beta, Oncostatin-M receptor subunit alpha, IL-6 receptor Beta
Isotype	Rat IgG2b, κ
Description	CD130, also known as gp130 and IL-6ST, is a type I transmembrane glycoprotein. CD130 can form receptor complexes for a family of cytokines, which include IL-6, IL-11, IL-27, LIF, and OSM, and can transduce signals for these cytokines. The 597aa extracellular domain has one Ig-like domain and five fibronectin type-III repeats. The 277a.a. intracellular domain does not have intrinsic kinase activity. Instead, it can be phosphorylated at tyrosine residues after it forms complexes with other receptor subunits, and in turn can lead to the association with JAK tyrosine kinases and the activation of STAT transcription factors, particularly STAT3.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant mouse CD130 (a.a. 23-619) expressed in 293E cells.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Product Citations	1. van Oostrum M, <i>et al.</i> 2019. Nat Commun. 4.398611111. PubMed 2. Ng S, <i>et al.</i> 2022. Sci Rep. 12:14087. PubMed
RRID	AB_2566644 (BioLegend Cat. No. 149403) AB_2566645 (BioLegend Cat. No. 149404)

Antigen Details

Structure	Single pass type 1 membrane glycoprotein.
Distribution	T cells, activated B cells, plasma cells, and monocytes.
Function	Signal transduction.

Interaction	IL-6RA, IL-11RA, IL-27RA, OSMR, LIFR, CNTFR, JAK1, and SOCS3.
Cell Type	B cells, Dendritic cells, Monocytes, Plasma cells, T cells, Tregs
Biology Area	Immunology, Innate Immunity
Molecular Family	CD Molecules
Antigen References	1. Hibi M, <i>et al.</i> 1990. <i>Cell</i> 63:1149. 2. Kishimoto T, <i>et al.</i> 1995. <i>Blood</i> 86:1243.
Gene ID	16195

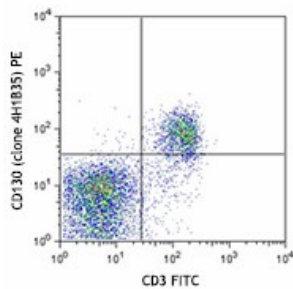
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

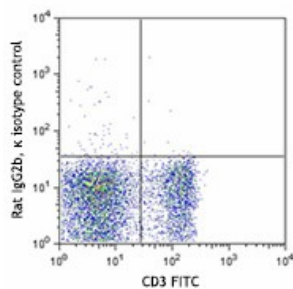
Other Formats

Purified anti-mouse CD130 (gp130), PE anti-mouse CD130 (gp130), APC anti-mouse CD130 (gp130)

Product Data



C57BL/6 mouse splenocytes were stained with CD3 FITC and CD130 (clone 4H1B35) PE (top) or rat IgG2b, κ PE isotype control (bottom).



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