

CD130 (GP130) Monoclonal Antibody (KGP130), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	KGP130
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2572577

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	3 Publications

Product Specific Information

Description: The KGP130 monoclonal antibody reacts with mouse gp130, also known as CD130. gp130 is a 130 kD Type-I transmembrane glycoprotein containing a 597 amino acid extracellular domain, a single transmembrane domain, and a 277 amino acid cytoplasmic domain. gp130 is a subunit of several heterodimeric cell-surface receptors, including receptors for IL-6, IL-11, IL-27, Oncostatin M, and Leukemia Inhibitory Factor (LIF). The gp130 protein has also been found to exist in a soluble form, which is capable of inhibiting IL-6 signaling. gp130 is expressed mainly on T cells, monocytes, endothelial cells, activated B cells, and plasma cells, and is expressed at lower levels on most leukocytes and epithelial cells. In response to ligand binding, gp130 becomes tyrosine phosphorylated, leading to activation of several signaling pathways including the PI3 kinase, Ras-MAPK and Stat pathways.

Preincubation of mouse splenic T cells with IL-6 is capable of blocking the interaction of KGP130 with gp130, suggesting that the KGP130 binding site lies near the IL-6 interaction domain. Reactivity of KGP130 towards human gp130 has not been observed.

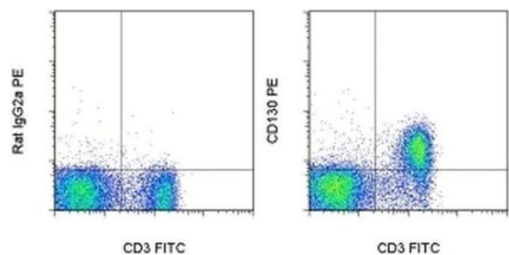
Applications Reported: This KGP130 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This KGP130 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD130 (GP130) Monoclonal Antibody (KGP130), PE, eBioscience™



CD130 (GP130) Antibody (12-1302-82) in Flow
Staining of mouse splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.06 µg of Rat IgG2a K Isotype Control PE (Product # 12-4321-80) (left) or 0.06 µg of Anti-Mouse CD130 PE (right). Cells in the lymphocyte gate were used for analysis.

3 References

Flow Cytometry (3)

Immunity	Year 2021
The persistence of interleukin-6 is regulated by a blood buffer system derived from dendritic cells. "Published figure using CD130 (GP130) monoclonal antibody (Product # 12-1302-82) in Flow Cytometry" Authors: Yousif AS,Ronsard L,Shah P,Omatsu T,Sangesland M,Bracamonte Moreno T,Lam EC,Vrbancac VD,Balazs AB, Reinecker HC,Lingwood D	
Proceedings of the National Academy of Sciences of the United States of America	Year 2018
Myeloid ERK5 deficiency suppresses tumor growth by blocking protumor macrophage polarization via STAT3 inhibition. "12-1302 was used in Flow cytometry/Cell sorting to suggest that blocking ERK5 constitutes a treatment strategy to reprogram macrophages toward an antitumor state by inhibiting STAT3-induced gene expression." Authors: Giurisato E,Xu Q,Lonardi S,Telfer B,Russo I,Pearson A,Finegan KG,Wang W,Wang J,Gray NS,Vermi W,Xia Z, Tournier C	Species Mouse

[View more Flow references on thermofisher.com](#)

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