

CD32b Monoclonal Antibody (AT130-2), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	AT130-2
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_2572557

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	3 Publications

Product Specific Information

Description: The monoclonal antibody AT130-2 reacts with mouse CD32b, also known as Fc-gamma receptor IIb. CD32b is the only inhibitory member of the Fc-gamma receptor family. Immune complex engagement of CD32b results in the phosphorylation of its intracellular ITIM motif. This engagement serves to attenuate B cell receptor (BCR) signaling and other activating signals, reduces proliferation, reduces antibody production, and may also deliver apoptotic signals. CD32b is the only Fc-gamma receptor expressed by B cells. CD32b is also expressed on monocytes, dendritic cells, neutrophils, eosinophils and basophils, as well as B cell progenitors and plasma cells.

AT130-2 has been reported to have agonist activity.

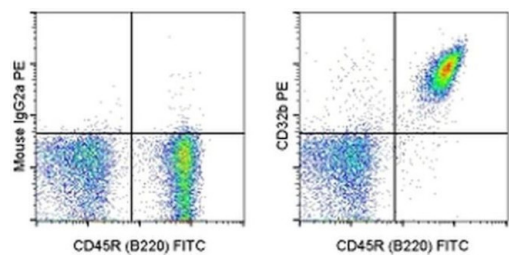
Applications Reported: This AT130-2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This AT130-2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 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 CD32b Monoclonal Antibody (AT130-2), PE, eBioscience™



CD32b Antibody (12-0321-82) in Flow
Staining of mouse splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.25 µg of Mouse IgG2a K Isotype Control PE (Product # 12-4724-81) (left) or 0.25 µg of Anti-Mouse CD32b PE (right). Total viable cells were used for analysis.

3 References

Flow Cytometry (3)

<p>iScience</p> <p>Synergistic effect of non-neutralizing antibodies and interferon- for cross-protection against influenza.</p> <p>"Published figure using CD32b monoclonal antibody (Product # 12-0321-82) in Flow Cytometry"</p> <p>Authors: Shibuya M,Tamiya S,Kawai A,Hirai T,Cragg MS,Yoshioka Y</p>	<p>Year 2021</p> <p>Species Mouse</p>
<p>Nature</p> <p>Cells of the human intestinal tract mapped across space and time.</p> <p>"Published figure using CD32b monoclonal antibody (Product # 12-0321-82) in Flow Cytometry"</p> <p>Authors: Elmentaite R,Kumasaka N,Roberts K,Fleming A,Dann E,King HW,Kleshchevnikov V,Dabrowska M,Pritchard S, Bolt L,Vieira SF,Mamanova L,Huang N,Perrone F,Goh Kai'En I,Lisgo SN,Katan M,Leonard S,Oliver TRW,Hook CE, Nayak K,Campos LS,Domínguez Conde C,Stephenson E,Engelbert J,Botting RA,Polanski K,van Dongen S,Patel M, Morgan MD,Marioni JC,Bayraktar OA,Meyer KB,He X,Barker RA,Uhlig HH,Mahbubani KT,Saeb-Parsy K,Zilbauer M, Clatworthy MR,Haniffa M,James KR,Teichmann SA</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:200</p>

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

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