

B7-H4 Monoclonal Antibody (188), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	188
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466076

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	2 Publications
Functional Assay (FN)	-	1 Publication

Product Specific Information

Description: The 188 monoclonal antibody was generated against and reacts with mouse B7-H4 also known as B7S1, B7X. Cross reactivity of this antibody to other proteins has not been determined. B7-H4 is a newly discovered member of the B7 family reported to inhibit T cell activation, cell cycle progression and IL-2 production. The ligand for B7-H4 has not been identified yet. Simultaneous double staining of cells with two anti-mouse B7-H4 antibodies, Clone 9 and 188, suggests that epitopes recognized by these mAbs are different and/or there is no steric hindrance when antibodies are used together. 188 stains mouse B7-H4 transfected cells and not spleen cells. Exact expression pattern of B7-H4 has not been fully characterized.

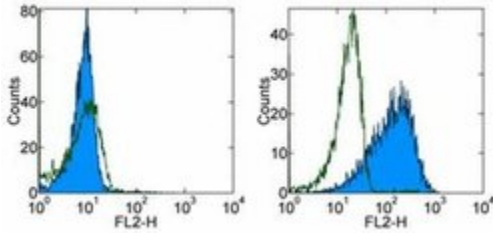
Applications Reported: The 188 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 188 antibody has been tested by flow cytometric analysis of transfected cells. 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 B7-H4 Monoclonal Antibody (188), PE, eBioscience™



B7-H4 Antibody (12-5972-82) in Flow

Staining of non-transfected (left) and mouse B7-H4-transfected (right) L5178Y cells with 0.25 µg of Rat IgG2b kappa Isotype Control PE (Product # 12-4031-82) (open histogram) or 0.25 µg of Anti-Mouse B7-H4 PE (filled histogram). Total viable cells were used for analysis.

3 References

Flow Cytometry (2)

Cancer research

Control of PD-L1 Expression by Oncogenic Activation of the AKT-mTOR Pathway in Non-Small Cell Lung Cancer.

"12-5972 was used in Flow cytometry/Cell sorting to suggest that oncogenic activation of the AKT-mTOR pathway promotes immune escape by driving expression of PD-L1."

Authors: Lastwika KJ, Wilson W, Li QK, Norris J, Xu H, Ghazarian SR, Kitagawa H, Kawabata S, Taube JM, Yao S, Liu LN, Gills JJ, Dennis PA

Species
Mouse

Dilution
Not Cited

Year
2016

Cell research

A critical role of IFN γ in priming MSC-mediated suppression of T cell proliferation through up-regulation of B7-H1.

"12-5972 was used in Flow cytometry/Cell sorting to investigate the role that IFN plays in mesenchymal stem cell mediated suppression of T cell proliferation."

Authors: Sheng H, Wang Y, Jin Y, Zhang Q, Zhang Y, Wang L, Shen B, Yin S, Liu W, Cui L, Li N

Species
Mouse

Dilution
Not Cited

Year
2008

Functional Assay (1)

Kidney international

Expression of the novel co-stimulatory molecule B7-H4 by renal tubular epithelial cells.

Authors: Chen Y, Yang C, Xie Z, Zou L, Ruan Z, Zhang X, Tang Y, Fei L, Jia Z, Wu Y

Species
Not Applicable

Dilution
Not Cited

Year
2006

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