# 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.

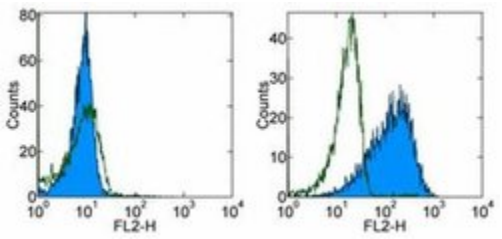
Applications Reported: The 188 antibody has been reported for use in flow cytometric analysis.

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 10^5 to 10^8 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 IFNgamma 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