

# Product Data Sheet

## Purified anti-mouse B7-H4 (B7S1, B7X)

**Catalog # / Size:** 128102 / 500 µg

**Clone:** clone 9

**Isotype:** Rat IgG1

**Immunogen:** B7-S1 Fc fusion protein

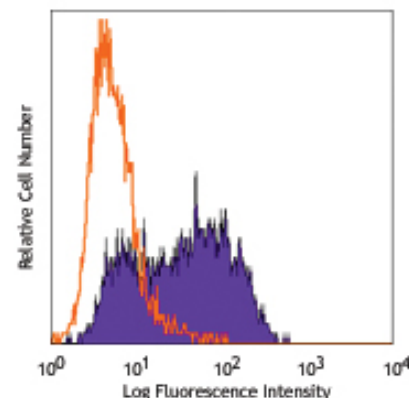
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



Mouse B7-H4 transfected 293E cells stained with clone 9 PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.06 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:** 1. del Rio ML, *et al.* 2011. *Transpl. Int.* 24:501. (FC) PubMed

**Description:** B7-H4 is a newly discovered B7 family member that negatively regulates T cell immunity by inhibiting of T cell proliferation, cytokine production, and cell cycle progression. In vitro, B7-H4 inhibits CD4<sup>+</sup> and CD8<sup>+</sup> T cell proliferation, cytokine production, and generation of alloreactive cytotoxic T-cells (CTLs). In vivo, blockade of endogenous B7-H4 by specific monoclonal antibody promotes T cell responses. A new function of B7-H4 was reported as an important negative regulator of innate immunity through growth inhibition of neutrophils. It was reported that B7-H4 does not constitutively expressed on peripheral tissues but could be induced to express on T cells, B cells, macrophages, and dendritic cells. B7-H4 is expressed on some tumor cancer cells. The role of B7-H4 in tumor progression may be to transform precancerous cells and then protect them from immunosurveillance. Although B- and T- lymphocyte attenuator (BTLA) was proposed to be the receptor for B7-H4, further studies are needed to identify the inhibitory receptor of B7-H4.

### Related Products:

**Product**  
 Purified Rat IgG1, κ Isotype Ctrl  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)

**Clone**  
 RTK2071

**Application**  
 FC, ICFC, ICC, IF, IHC, IP, WB  
 FC, ICC, ICFC  
 FC, ICFC



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