

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

**Catalog # / Size:** 128107 / 50 µg  
128108 / 200 µg

**Clone:** clone 9

**Isotype:** Rat IgG1

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

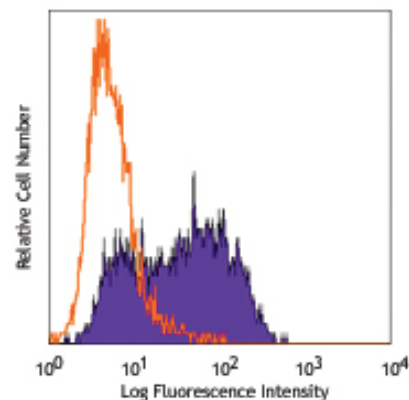
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

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

**Concentration:** 0.2 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



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  $\leq 1.0 \mu\text{g}$  per  $10^6$  cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**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.

<b>Related Products:</b>	<b>Product</b>	<b>Clone</b>	<b>Application</b>
	PE Rat IgG1, κ Isotype Ctrl	RTK2071	FC,ICFC
	Cell Staining Buffer (FBS)		FC,ICC,ICFC
	RBC Lysis Buffer (10X)		FC,ICFC



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