

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

Catalog # / Size: 139405 / 25 µg
139406 / 100 µg

Clone: HMH4-5G1

Isotype: Armenian Hamster IgG

Immunogen: Mouse B7-H4 human IgG1 Fc fusion protein

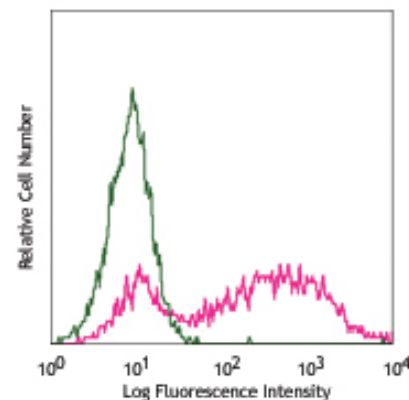
Reactivity: Mouse

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 293 cells stained with HMH4-5G1 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 $\leq 0.06 \mu\text{g}$ per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported application (for relevant formats) include: blocking¹.

Application References: 1. Personal communication (Block)

Description: B7-H4 is a newly discovered B7 family member that negatively regulates T cell immunity. *In vitro*, B7-H4 inhibits CD4+ and CD8+ T cell proliferation, cytokine production, and generation of alloreactive cytotoxic T-cells (CTLs). *In vivo*, blockage of endogenous B7-H4 by specific monoclonal antibodies promotes T cell responses. A new reported function of B7-H4 is as an important negative regulator of innate immunity through growth inhibition of neutrophils. It has been reported that B7-H4 is not constitutively expressed on peripheral tissues but can 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.

Antigen References: 1. Choi IH, et al. 2003. *J. Immunol.* 171:4650.
2. Prasad DV, et al. 2003. *Immunity* 18:863.
3. Kryczek I, et al. 2006. *J. Exp. Med.* 203:871.

Related Products:

Product
PE Armenian Hamster IgG Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)
TruStain fcX™ (anti-mouse CD16/32)

Clone
HTK888

93

Application
FC, ICFC
FC, ICC, ICFC
FC, ICFC
FC



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