

Product Data Sheet

Purified anti-human CD270 (HVEM, TR2)

Catalog # / Size: 318802 / 100 µg

Clone: 122

Isotype: Mouse IgG1, κ

Immunogen: recombinant humanHVEM protein

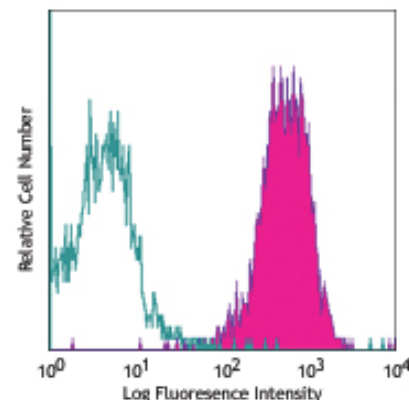
Reactivity: Human

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.



Human peripheral blood lymphocytes stained with purified 122, followed by biotinylated anti-mouse IgG and Sav-PE

Applications:

Applications: FC - *Quality tested*
 WB, ELISA - *Reported in the literature*

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 ≤1.0 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. Cheung TC, *et al.* 2010. *J. Immunol.* 185:1949. PubMed
 2. Hobo W, *et al.* 2012. *J Immunol.* 189:39. PubMed.

Description: The 122 antibody recognizes human HVEM also known as herpesvirus entry mediator A, tumor necrosis factor receptor superfamily, member 14, TNFRSF14, and tumor necrosis factor receptor like 2. HVEM, a member of the TNFR superfamily, is a type I transmembrane protein containing 2 TNF receptor domains with a predicted molecular weight of approximately 30 kD. HVEM is widely expressed in blood vessels, brain, heart, kidney, liver, lung, prostate, spleen, thymus and other organs. Resting T cells and naïve and memory B cells express high levels of HVEM as well. In humans, HVEM is not expressed in germinal center B cells. Immature dendritic cells express high levels of HVEM that is downregulated upon maturation. HVEM plays an important role in herpes simplex virus pathogenesis by enhancing entry into cells. Signaling through HVEM activates JNK1, NF-κB and AP-1 to control gene expression in response to infection or cellular stress and activate the immune response. HVEM binds to LIGHT and has also been shown to associate with several other proteins including TRAF1, TRAF2, TRAF3, TRAF5, B and T lymphocyte associated protein (BTLA), and estrogen receptor alpha. The 122 antibody has been shown to be useful for flow cytometry, Western blot, and ELISA.

Antigen References: 1. Carfi A, *et al.* 2001. *Molec. Cell* 8:169.
 2. Gonzalez LC, *et al.* 2005. *Proc. Nat. Acad. Sci.* 102:1116.
 3. Kwon BS, *et al.* 1997. *J. Biol. Chem.* 272:13471.
 4. Marsters SA, *et al.* 1997. *J. Biol. Chem.* 272:14272.
 5. Montgomery RI, *et al.* 1996. *Cell* 87:427.

Related Products:

Product
 Purified Mouse IgG1, κ Isotype Ctrl
 APC Goat anti-mouse IgG (minimal x-reactivity)
 PE Goat anti-mouse IgG (minimal x-reactivity)
 Cell Staining Buffer

Clone
 MOPC-21
 Poly4053
 Poly4053

Application

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



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