

# Product Data Sheet

## PE anti-human CD270 (HVEM, TR2)

**Catalog # / Size:** 318805 / 25 tests  
318806 / 100 tests

**Clone:** 122

**Isotype:** Mouse IgG1,  $\kappa$

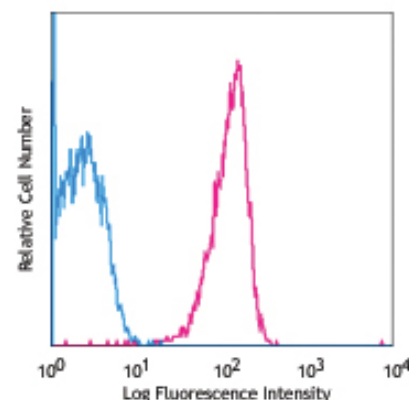
**Immunogen:** recombinant humanHVEM protein

**Reactivity:** Human

**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 and 0.2% (w/v) BSA (origin USA).

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



Human peripheral blood lymphocytes stained with 122 PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application References:** 1. Fuertes Marraco SA, *et al.* 2012. *J. Immunol Methods*. 385:90. 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- $\kappa$ B 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**  
Cell Staining Buffer  
PE Mouse IgG1,  $\kappa$  Isotype Ctrl (FC)  
Human TruStain FcX™ (Fc Receptor Blocking Solution)

### Clone

MOPC-21

### Application

FC, ICC, ICFC  
FC  
FC, ICC, ICFC



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