

APC anti-mouse CD270 (HVEM) Antibody

Catalog# / Size	136305 / 25 µg 136306 / 100 µg
Clone	HMHV-1B18
Regulatory Status	RUO
Other Names	Herpes virus entry mediator, TR2, tumor necrosis factor receptor like 2, TNFRSF14, HVEM
Isotype	Armenian Hamster IgG
Description	Herpes Virus Entry Mediator (HVEM, TR2) is a type I transmembrane protein of TNF-receptor superfamily. This receptor was identified as a cellular mediator of herpes simplex virus (HSV) entry. Binding of HSV viral envelope glycoprotein D to this receptor has been shown to be part of the viral entry mechanism. It is expressed on most cell types, including T cells, B cells, monocytes, neutrophils, and dendritic cells. It is also found in brain, heart, kidney, liver, and other organs. The ligands of HVEM are LIGHT, BTLA, LT α , and CD160. HVEM activates NF- κ B through the TNF-related cytokine LIGHT to serve as a costimulatory pathway during T cell activation. HVEM also functions as a ligand for the Ig superfamily members B and T lymphocyte attenuator (BTLA) and CD160 to deliver a coinhibitory signal and limit inflammatory responses initiated by T cells. HVEM plays an important role in regulating lymphocyte activation and homeostasis in immune responses.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Armenian Hamster
Immunogen	Mouse HVEM-hIgG1Fc fusion protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Product Citations	1. Li CY, <i>et al.</i> 2022. Int J Mol Sci. 23: PubMed
RRID	AB_2203829 (BioLegend Cat. No. 136305) AB_2303381 (BioLegend Cat. No. 136306)

Antigen Details

Structure	A type I transmembrane protein of TNF-receptor superfamily.
Distribution	It is expressed on most cell types, including T cells, B cells, monocytes, neutrophils, and dendritic

cells. It is also found in brain, heart, kidney, liver, and other organs.

Function	Play an important role in regulating lymphocyte activation and homeostasis in immune responses.
Ligand/Receptor	LIGHT, BTLA, LT α , CD160
Cell Type	B cells, Dendritic cells, Neutrophils
Biology Area	Cell Adhesion, Cell Biology, Immunology, Signal Transduction
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none">1. Fan Z, <i>et al.</i> 2006. <i>Blood</i> 107(4):13422. Granger SW, <i>et al.</i> 2008. <i>Stem Cells</i>. 27:6533. Kwon BS, <i>et al.</i> 1997. <i>J. Biol. Chem.</i> 272:134714. Gonzalez LC, <i>et al.</i> 2005. <i>Proc. Nat. Acad. Sci. U. S. A.</i> 102:11165. Montgomery RI, <i>et al.</i> 1996. <i>Cell</i>. 87:4276. Cheung TC, <i>et al.</i> 2009. <i>Proc. Nat. Acad. Sci. U. S. A.</i> 106 (15):62447. Cai G, <i>et al.</i> 2009. <i>Immunol. Rev.</i> 229(1):244
Gene ID	230979

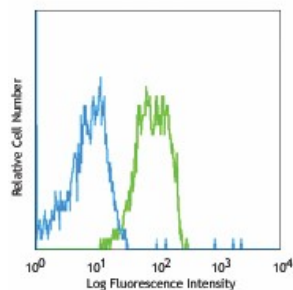
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD270 (HVEM), PE anti-mouse CD270 (HVEM), APC anti-mouse CD270 (HVEM), TotalSeq™-A0885 anti-mouse CD270 (HVEM), TotalSeq™-C0885 anti-mouse CD270 (HVEM)

Product Data



C57BL/6 splenocytes stained with
HMHV-1B18 APC

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