

Datasheet for ABIN7072469

Recombinant anti-HVEM antibody



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Overview

Quantity:	200 µg
Target:	HVEM (TNFRSF14)
Reactivity:	Mouse
Host:	Hamster
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This HVEM antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP), Blocking Peptide (BP), Functional Studies (Func)

Product Details

Purpose:	Anti-HVEM [HMHV-1B18], Hamster (Armenian) IgG, kappa
Immunogen:	This antibody was raised by immunising Armenian hamsters with mouse HVEM:Fc fusion protein.
Clone:	HMHV-1B18
Isotype:	IgG kappa
Specificity:	This antibody is specific for Herpes Virus Entry Mediator (HVEM, TR2), a type I transmembrane protein of TNF-receptor superfamily. This receptor, which is expressed on most cell types, including T cells, B cells, monocytes, neutrophils, and dendritic cells. Binding of HSV viral envelope glycoprotein D (gD) to this receptor protein has been shown to be part of the viral entry mechanism. The cytoplasmic region of HVEM was found to bind to several TRAF family

Product Details

members, which may mediate the signal transduction pathways that activate the immune response. HVEM has also been demonstrated to be a unique ligand for BTLA (B and T lymphocyte attenuator). The conservation of the BTLA-HVEM interaction between mouse and human suggests that this system is an important pathway regulating lymphocyte activation and/or homeostasis in the immune response.

Characteristics: Original Species of Ab: Hamster, Armenian
Original Format of Ab: IgG

Purification: Protein A affinity purified

Target Details

Target: HVEM (TNFRSF14)

Alternative Name: HVEM ([TNFRSF14 Products](#))

Target Type: Viral Protein

Background: CD270, TNF Receptor-like 2, ATAR, Herpes virus Entry Mediator A, HVEA, Herpes virus Entry Mediator, LIGHTR, Tumor Necrosis Factor Receptor-Like Gene2, Tumor Necrosis Factor Receptor-Like 2, TR2, Tumor Necrosis Factor Receptor Superfamily Member 14, TNFRSF14, CD40-Like Protein

UniProt: [Q71F55](#)

Pathways: [Production of Molecular Mediator of Immune Response](#), [Cancer Immune Checkpoints](#)

Application Details

Application Notes: This antibody has been used in FACS to demonstrate that lymphatic endothelial cells mediate deletion only via programmed cell death-1 (PD-1) ligand 1 (Tewalt et al 2012) and in Western Blot to study the role of LIGHT in the pathogenesis of hepatitis (Anand et al 2006). This antibody has been also been used in vivo experiments to study the mechanisms by which TNFSF14 functions to promote airway remodelling in asthma (Sibilano et al 2016), to confirm that costimulatory role through HVEM is not necessary for LIGHT-mediated liver inflammation (Anand et al 2006), and to investigate the role that herpesvirus entry mediator plays in the development of experimental conjunctivitis (Ishida et al, 2012). Treatment with this antibody has been observed to diminish plasma levels of antigen-specific IgG1 and IgE antibodies in mouse asthma models (Sibilano et al 2016), to interfere with the LIGHT-HVEM interaction but not interaction between B and T lymphocyte attenuator (BTLA) and HVEM in mouse hepatitis

Application Details

models (Anand et al 2006), and NOT to affect the development of experimental conjunctivitis in either the induction or the effector phase (Ishida et al, 2012).

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: PBS with 0.02 % Proclin 300.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.