

anti-Mouse HVEM Monoclonal Antibody | anti-HVEM antibody

Anti-HVEM [HMHV-1B18]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72100	Hamster (Armenian)	Mouse	Functional Assay, Immunoprecipitation, Western Blot, Flow Cytometry, Functional Assay

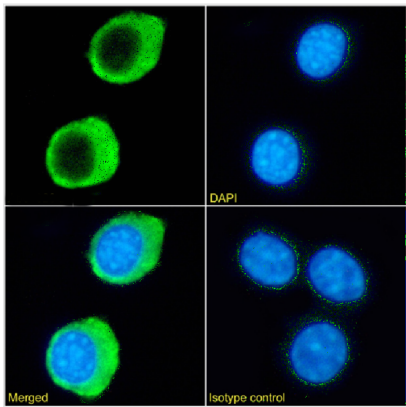
PRODUCT SYNONYMS

HVEM; Monoclonal Antibody; Anti-HVEM [HMHV-1B18]; 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; anti-HVEM antibody

PRODUCT SPECIFICATIONS

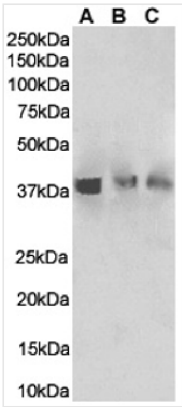
Host	Hamster (Armenian)
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Hamster (Armenian) IgG, kappa
Clone Number	HMHV-1B18
Specificity	This antibody is specific for Herpes Virus Entry Mediator (HVEM, TR2), a type I transmembrane protein of TNF-receptor superfamily. This receptor, which is expressed on 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 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.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-HVEM antibody	FA (Functional Assay), Blocking, IP (Immunoprecipitation), WB (Western Blot), FCM/FACS (Flow Cytometry)
Chimeric Use Statement	This chimeric hamster (Armenian) antibody was made using the variable domain sequences of the original Hamster IgG format, for improved compatibility with existing reagents, assays and techniques.
PMID	21779950
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of fixed RAW264.7 cells with anti-HVEM antibody HMMHV-1B18. Immunofluorescence analysis of paraformaldehyde fixed RAW264.7 cells on Shi-fix coverslips stained with the chimeric rabbit IgG version of HMMHV-1B18 at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



WB (Western Blot)

Western Blot using anti-HVEM antibody HMMHV-1B18 Mouse spleen(A), mouse thymus (B) and mouse lung(C) tissue lysates (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of HMMHV-1B18 at 0.01ug/ml, before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-HVEM antibody	Recombinant monoclonal antibody to HVEM. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma HMMHV-1B18. This antibody was raised by immunising Armenian hamsters with mouse HVEM:Fc fusion protein.
Product Categories/Family for anti-HVEM antibody	immunology; costimulation; immune-checkpoint; immuno-oncology; T cells
References	Waka Ishida et al. B and T lymphocyte attenuator regulates the development of antigen-induced experimental conjunctivitis. Graefes Arch Clin Exp Ophthalmol. 2012 Feb;250(2):289-95. Note on publication: Describe the use of this antibody, together with the anti-BTLA antibody, to investigate the roles that B and T lymphocyte attenuator (BTLA) and herpesvirus entry mediator (HVEM) play in the development of antigen-induced experimental conjunctivitis (EC).

NCBI AND UNIPROT INFORMATION

UniProt Accession #	Q71F55
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/hvem-antibody-clone-hmhv-1b18-functional-assay-immunoprecipitation-western-blot-flow-cytometry-elisa/72100>