

Datasheet for ABIN4949111

HVEM Protein (AA 39-202) (His tag)**3** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	HVEM (TNFRSF14)
Protein Characteristics:	AA 39-202
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This HVEM protein is labelled with His tag.
Application:	Functional Studies (Func)

Product Details

Sequence:	AA 39-202
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 19.2 kDa. The protein migrates as 33-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	HVEM (TNFRSF14)
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Target Details

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

Target Type: Viral Protein

Background: Herpesvirus entry mediator (HVEM) is also known as TNFRSF14, TR2 (TNF receptorlike molecule) and ATAR (another TRAF associated receptor), is a type I membrane protein belonging to the TNF/NGF receptor superfamily. HVEM expression has been detected in peripheral blood T cells, B cells, monocytes and in various tissues enriched in lymphoid cells. The extracellular domain of HVEM has been shown to interact directly with the herpes simplex virus envelope glycoprotein D (gD). Two TNF superfamily ligands, including the secreted TNF β (lymphotoxin α) and the membrane protein LIGHT (lymphotoxins, exhibits inducible expression, and competes with HSV glycoprotein D for HVEM, a receptor expressed by T lymphocytes), have been shown to be the cellular ligands for HVEM. Besides HVEM, LIGHT can also interact with LT β R, the receptor for lymphotoxin $\alpha\beta$ heterotrimer. The role of the HVEM LIGHT /LT β receptor ligand pair in immune function and herpesvirus pathobiology remains to be elucidated.

Molecular Weight: 19.2 kDa

NCBI Accession: [NP_003811](#)

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

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

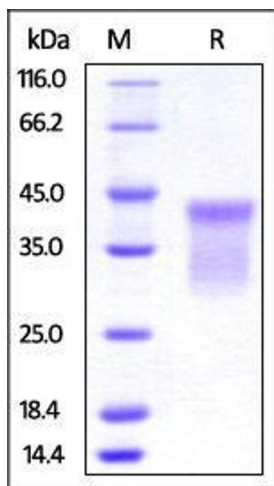
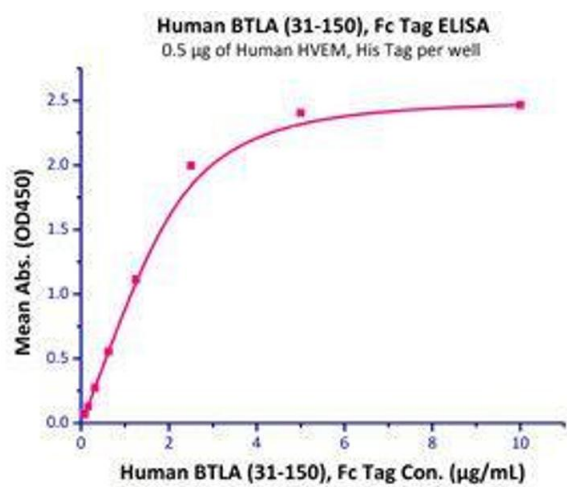
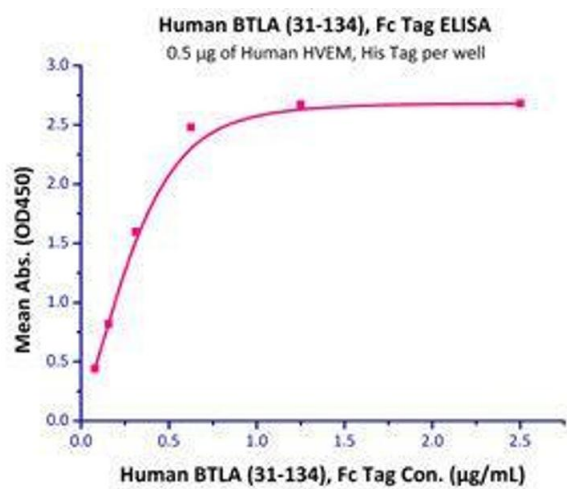
Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C

Publications

Product cited in: Stocki, Szary, Rasmussen, Demydchuk, Northall, Logan, Gauhar, Thei, Moos, Walsh, Rutkowski: "Blood-brain barrier transport using a high affinity, brain-selective VNAR antibody targeting transferrin receptor 1." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 35, Issue 2, pp. e21172, (2021) ([PubMed](#)).



Binding Studies

Image 1. Immobilized Human HVEM, His Tag (Cat # HVM-H52E9) at 5 µg/mL (100 µL/well) can bind Human BTLA, Fc Tag (Cat # BTA-H5255) with a linear range of 0.08 – 0.3 µg/mL.

Binding Studies

Image 2. Immobilized Human HVEM, His Tag (Cat # HVM-H52E9) at 5 µg/mL (100 µL/well) can bind Human BTLA (31-150), Fc Tag (Cat # BTA-H5256) with a linear range of 0.08 – 1.25 µg/mL.

SDS-PAGE

Image 3. Human HVEM, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.