

Recombinant Human HHLA2 protein, Fc-tagged

Cat. No. HHLA2-548H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HHLA2 (Ile23-Asn344) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Ile23-Asn344
Description	B7-H7 (HHLA2) is a newly identified B7 family member that regulates human T-cell functions. B7-H7 was previously known as human endogenous retrovirus-H long terminal repeat associating 2 (HHLA2) with unidentified function. Recently, B7-H7 has been identified as a specific ligand for human CD28H. The B7-H7-CD28H pathway strongly promoted CD4+ T-cell proliferation and cytokine production via an AKT-dependent signaling cascade in the presence of TCR signaling, suggesting B7-H7 comprises a new co-stimulatory pathway. The first IgV domain of B7-H7, which presumably binds to a putative receptor, shows the highest homology to other B7 family members.
Predicted N Terminal	Ile23
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 63.4 kDa. The protein migrates as 80-100 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by reduced SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	HHLA2
Official Symbol	HHLA2
Synonyms	HHLA2; HERV-H LTR-associating 2; HERV-H LTR-associating protein 2; human endogenous retrovirus-H long terminal repeat-associating protein 2
Gene ID	11148
mRNA Refseq	NM_007072
Protein Refseq	NP_009003

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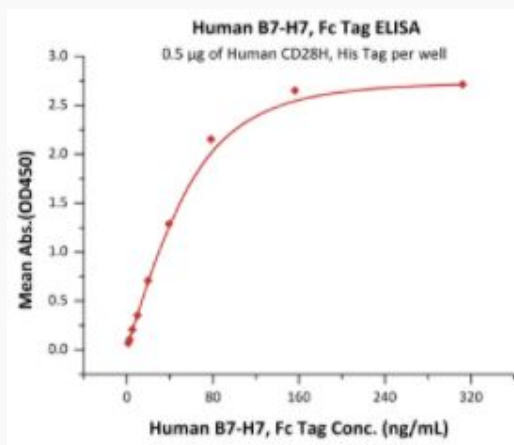
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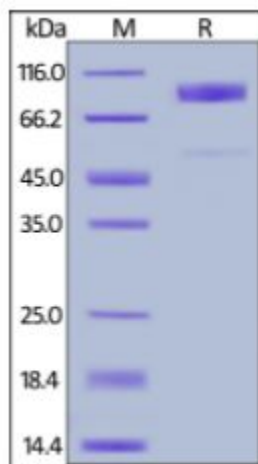
UniProt ID Q9UM44

**Bioactivity-ELISA of
HHLA2-548H**



Immobilized Human CD28H, His Tag at 5 µg/mL (100 µL/well) can bind Human B7-H7, Fc Tag with a linear range of 1-78 ng/mL (QC tested).

**SDS-PAGE of
HHLA2-548H**



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Human B7-H7, Fc 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%.

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