

Recombinant Human TNFSF14 protein, Mouse IgG2a Fc-tagged, low endotoxin

Cat. No. TNFSF14-394H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF14 protein (Asp74-Val240), fused to Mouse IgG2a Fc tag at N-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	167
Description	Tumor necrosis factor ligand superfamily member 14(LIGHT) is a tumor necrosis factor (TNF) superfamily ligand that regulates T cell immune responses by signaling through the herpes virus entry mediator (HVEM) and the lymphotoxin beta receptor (LTbetaR). LIGHT has emerged as a potent initiator of T cell co-stimulation signals effecting CTL-mediated tumor rejection, allograft rejection and graft versus host disease. Constitutive expression of LIGHT leads to tissue destruction and autoimmune-like disease syndromes.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 45.1 kDa. The protein migrates as 50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.1 EU per ug by the LAL method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Purity	>95% as determined by 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 centigrade 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	TNFSF14
Official Symbol	TNFSF14
Synonyms	TNFSF14; tumor necrosis factor (ligand) superfamily, member 14; tumor necrosis factor ligand superfamily member 14; CD258; HVEM L; LIGHT; LTg; delta transmembrane LIGHT; herpesvirus entry mediator A; herpesvirus entry mediator ligand; herpesvirus entry mediator-ligand; herpes virus entry mediator ligand; ligand for herpesvirus entry mediator; tumor necrosis factor receptor-like 2; tumor necrosis factor superfamily member LIGHT; TR2; HVEML
Gene ID	8740
mRNA Refseq	NM_003807
Protein Refseq	NP_003798

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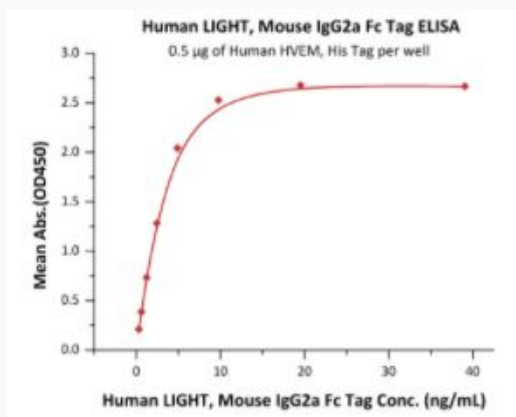
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MIM 604520

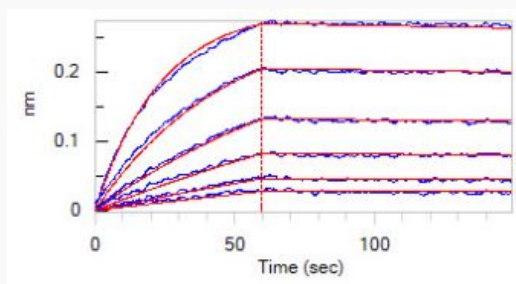
UniProt ID O43557

Bioactivity-ELISA of TNFSF14-394H



Immobilized Human HVEM, His Tag at 5 µg/mL (100 µL/well) can bind Human LIGHT, Mouse IgG2a Fc Tag, low endotoxin with a linear range of 0.3-5 ng/mL (QC tested).

Bioactivity-BLI of TNFSF14-394H



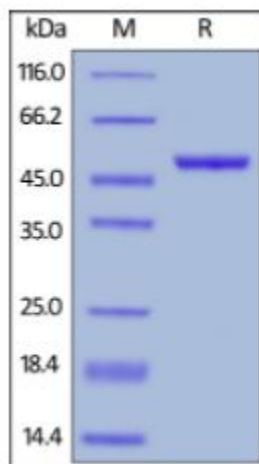
Loaded Human DcR3, Fc Tag on AHC Biosensor, can bind Human LIGHT, Mouse IgG2a Fc Tag, low endotoxin with an affinity constant of 1.64 nM as determined in BLI assay (Routinely tested).

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**SDS-PAGE of
TNFSF14-394H**



Human LIGHT, Mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.