

Recombinant Human TNFSF4 protein, Fc-tagged

Cat. No. TNFSF4-490H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF4 protein (Gln51-Leu183) was fused to human IgG1 Fc tag at N-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Gln51-Leu183
Description	<p>Tumor necrosis factor ligand superfamily member 4 (TNFSF4) is also known as glycoprotein Gp34, OX40 ligand (OX40L), TAX transcriptionally-activated glycoprotein 1 and CD252, which belongs to the tumor necrosis factor family. TNFSF4 is the ligand for CD134 and is expressed on such cells as DC2s (a subtype of dendritic cells) enabling amplification of Th2 cell differentiation. The interaction of TNFSF4-TNFSF4 is involved in the pathogenesis of multiple autoimmune and inflammatory diseases such as systemic lupus erythematosus (SLE), carotid artery disease and cancer. Furthermore, similar to other TNF superfamily members, membrane-bound OX40 Ligand (TNFSF4) exists as a homotrimer. Human TNFSF4 shares 46% amino acid sequence identity with its mouse counterpart.</p>
Predicted N Terminal	Gly
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 42.4 kDa. The protein migrates as 53-55 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 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 TNFSF4

Official Symbol TNFSF4

Synonyms GP34; CD252; OX40L; TXGP1; CD134L; OX-40L; TNLG2B

Gene ID 7292

mRNA Refseq NM_003326.5

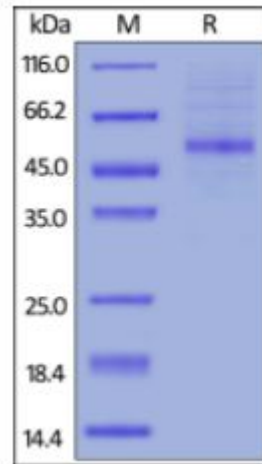
Protein Refseq NP_003317.1

MIM 603594

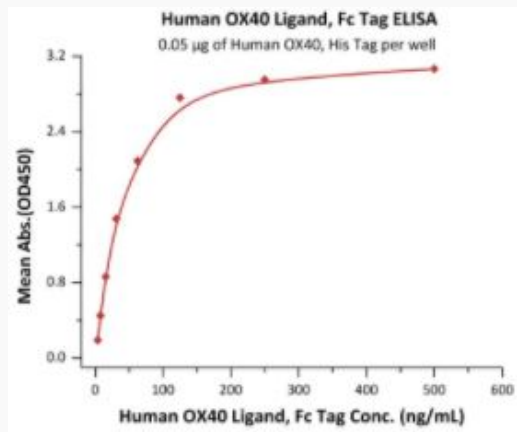
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UniProt ID
P23510
**SDS-PAGE of
TNFSF4-490H**


Human OX40 Ligand, 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%.

**Bioactivity-ELISA of
TNFSF4-490H**


Immobilized Human OX40, His Tag at 0.5 µg/mL (100 µL/well) can bind Human

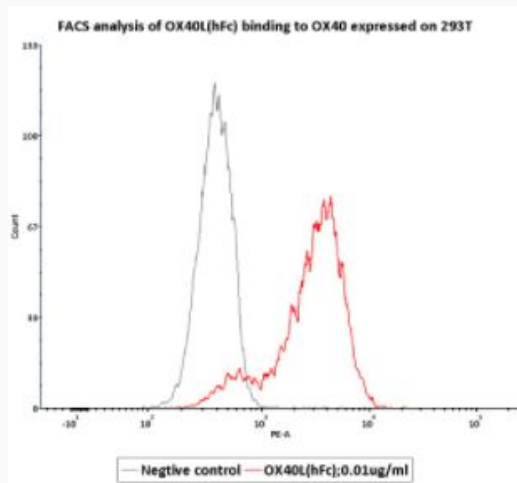
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OX40 Ligand, Fc Tag with a linear range of 2-63 ng/mL.

**Bioactivity-FACS of
TNFSF4-490H**



FACS assay shows that recombinant Human OX40 Ligand, Fc Tag can bind to 293T cell overexpressing human OX40. The concentration of OX40 Ligand used is 0.01 µg/ml.

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