



Synonym

OX40L, TNFSF4, CD252, Glycoprotein Gp34, TXGP1, CD134 ligand, CD134L

Source

Human OX40 Ligand Protein, Mouse IgG2a Fc Tag(OXL-H5250) is expressed from human 293 cells (HEK293). It contains AA Gln 51 - Leu 183 (Accession # [P23510-1](#)).

Predicted N-terminus: Gln 51

Molecular Characterization

OX40 Ligand(Gln 51 - Leu 183) P23510-1	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 42.3 kDa. The protein migrates as 53-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

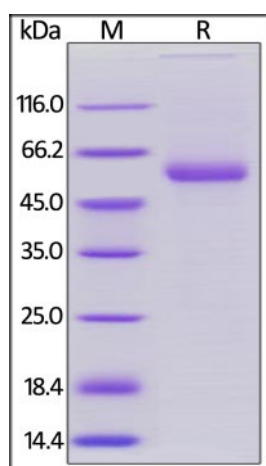
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

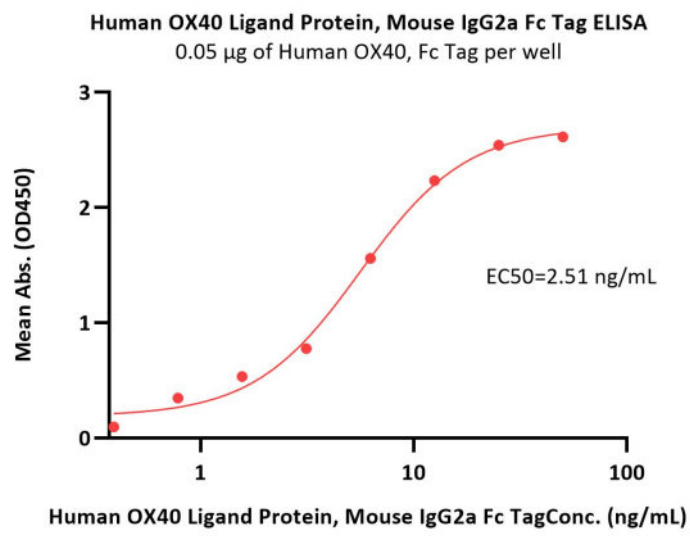


Human OX40 Ligand Protein, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

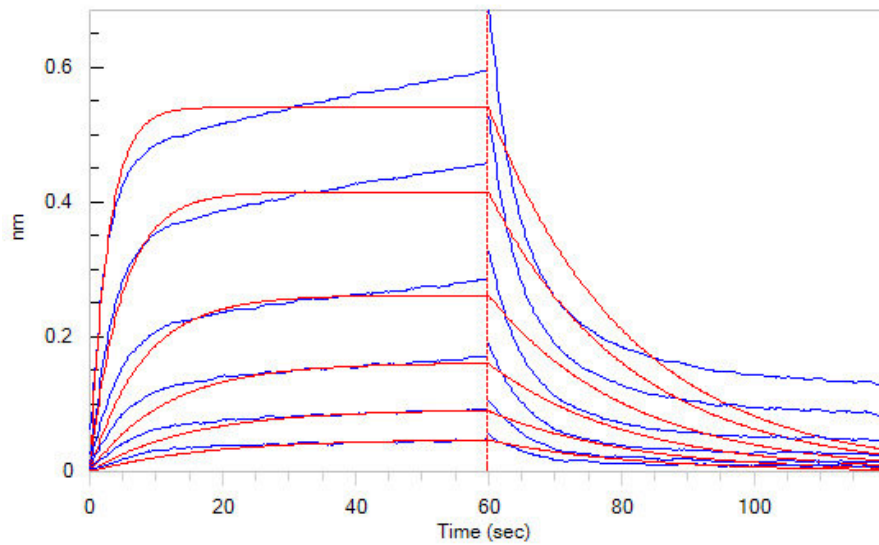
Discounts, Gifts,
and more!





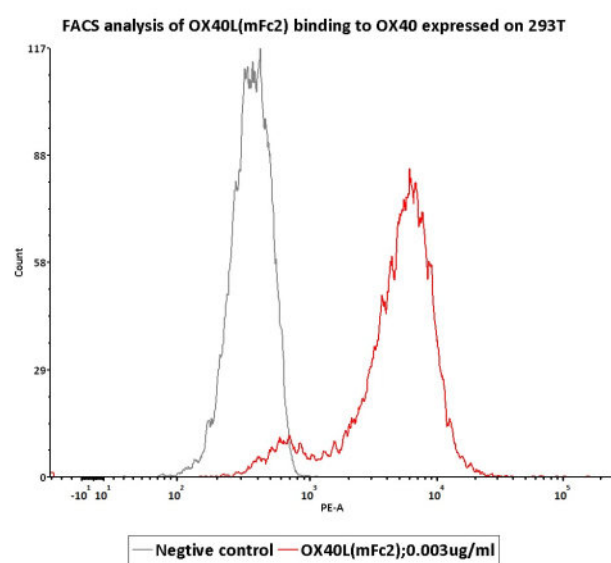
Immobilized Human OX40, Fc Tag (Cat. No. OX0-H5255) at 0.5 µg/mL (100 µL/well) can bind Human OX40 Ligand Protein, Mouse IgG2a Fc Tag (Cat. No. OXL-H5250) with a linear range of 0.8-13 ng/mL (QC tested).

Bioactivity-BLI

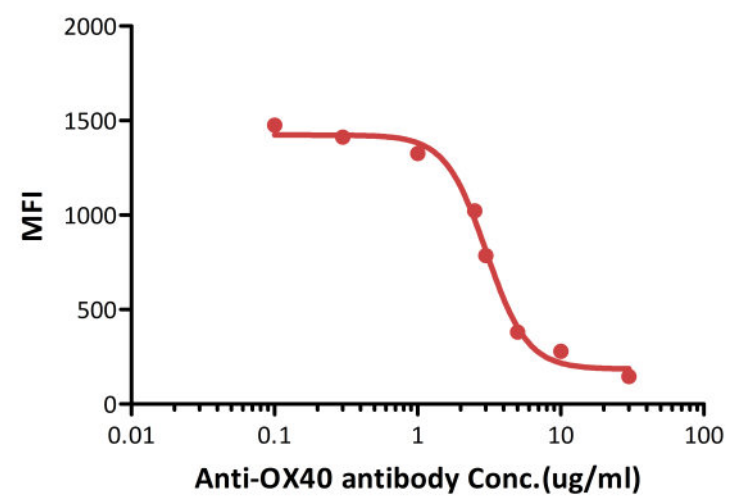


Loaded Human OX40 Ligand Protein, Mouse IgG2a Fc Tag (Cat. No. OXL-H5250) on Protein A Biosensor, can bind Human OX40, His Tag (Cat. No. OX0-H5224) with an affinity constant of 2 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Bioactivity-FACS



Competitive experiment of neutralizing anti-OX40 antibody



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FACS assay shows that recombinant Human OX40 Ligand, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. OXL-H5250) can bind to 293T cell overexpressing human OX40. The concentration of OX40 Ligand is 0.003 µg/ml (Routinely tested).

FACS analysis shows that the binding of Human OX40 Ligand, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. OXL-H5250) to 293T overexpressing OX40 was inhibited by increasing concentration of neutralizing anti-OX40 antibody. The concentration of OX40 Ligand used is 0.002 µg/ml. IC₅₀=3.021 µg/ml (Routinely tested).

Background

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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

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