For Research Use Only

Recombinant Human OX40L/TNFSF4 protein (His Tag)

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Catalog Number: Eg0582

Basic Information

Species:
Human

Purity:
>95 %, SDS-PAGE

Tag:
His Tag

EC50:
84-336 ng/mL

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μg protein, LAL method

Source:
HEK293-derived Human OX40L protein Gln51-Leu183 (Accession# P23510-1) with a His tag at the N-terminus

GeneID:
7292

Accession:
P23510-1

Predicted Molecular Mass:
16.2 kDa

SDS-PAGE:
18-26 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human OX40L (His tag) at 2 μg/mL (100 μL/well) can bind Human OX40 (hFc tag, Myc tag, His tag) with a linear range of 84-336 ng/mL.

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Tumor necrosis factor ligand superfamily member 4 (TNFSF4) is also named as TXGP1, OX40L and CD252. And it belongs to the tumor necrosis factor family. It is a kind of cytokines that binds to TNFRSF4. TNFSF4 can co-stimulate T-cell proliferation to produce cytokines. Recent evidence indicates that OX40-OX40L coupling is critical for cell survival and proliferation. While OX40 is expressed predominantly on T-lymphocytes early after antigen activation, OX40L is expressed on activated antigen presenting cells and endothelial cells within acute inflammatory environments. The tumour necrosis factor receptor OX40 (CD134) is activated by its cognate ligand OX40L (CD134L, CD252) and functions as a T cell co-stimulatory molecule. OX40L is found on antigen-presenting cells, activated T cells and others including lymphoid tissue inducer cells, some endothelia and mast cells. Expression of OX40L is increased after antigen presentation occurs and also in response to multiple other pro-inflammatory factors including CD28 ligation, CD40L ligation and interferon-gamma signaling. OX40L is a type II glycoprotein with a 23-amino-acid cytoplasmic tail and a 133-amino-acid extracellular domain. OX40L is a 34 kDa type II transmembrane protein.

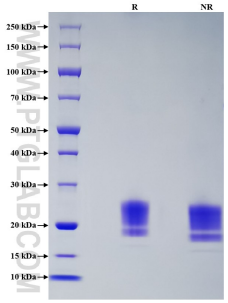
References

1.Wu LY. et al. (2020). Exp Neurol. 326:113179.
2.Gough MJ. et al. (2009). Adv Exp Med Biol. 647:94-107.
3.Webb GJ. et al. (2016). Clin Rev Allergy Immunol. 50(3):312-32.
4.Croft M. (2010). Annu Rev Immunol. 28:57-78.
5.Lu X. (2021). Curr Med Chem. 28(28):5659-5673

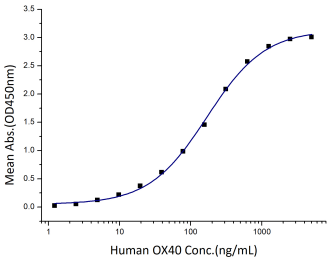
Synonyms

OX40L/TNFSF4, OX40L, TNFSF4, TNFSF4/CD252, OX 40L

Selected Validation Data



Purity of Recombinant Human OX40L was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Human OX40L (His tag) at 2 μg/mL (100 μL/well) can bind OX40 (hFc tag, Myc tag, His tag) with a linear range of 84-336 ng/mL.

For technical support and original validation data for this product please contact

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