

For Research Use Only

Recombinant Human OX40/TNFRSF4 protein (Myc Tag, His Tag)



Catalog Number: Eg0022

Basic Information

ED50:
0.3-1.2 ng/mL

GeneID:
7293

Species:
Human

Accession:
P43489

Purity:
>95 %, SDS-PAGE

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human OX40 protein Leu29-Ala214 (Accession# P43489) with a Myc tag and a His tag at the C-terminus.

Predicted Molecular Mass:
22.5 kDa

SDS-PAGE:
38-50 kDa, reducing (R) conditions

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human OX40 (Myc tag, His tag) at 2 μ g/mL (100 μ L/well) can bind Human OX40L (hFc tag) with a linear range of 0.3-1.2 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°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C 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

CD134 (OX40, TNFRSF4) is a member of the TNFR-superfamily of receptors. 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. OX40 is expressed on activated T cells, and in the mouse at rest on regulatory T cells (Treg). CD134 can interact with TRAF2, TRAF3, and TRAF5. OX40 is an immune checkpoint in cancer and its presence in cancer is a good prognosis, making it a highly relevant target for the development of new immunotherapies.

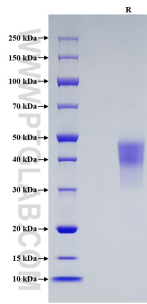
References

- 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.Cebada J. et al. (2021). Expert Opin Ther Pat. 31(1):81-90.

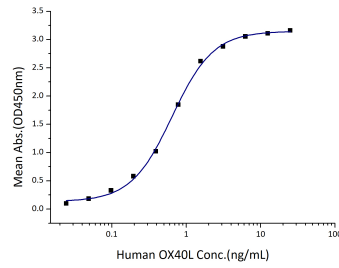
Synonyms

ACT35, CD134, OX40, OX40L receptor, TNFRSF4, TXGP1L

Selected Validation Data



Purity of Recombinant Human OX40 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



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

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