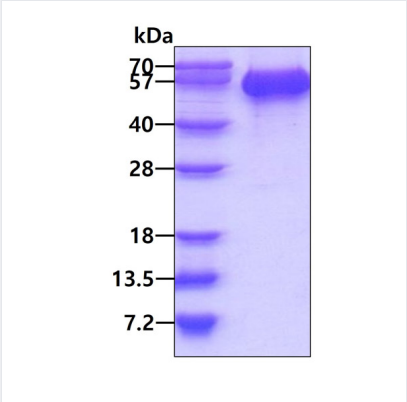
OX40/TNFRSF4 Active Protein

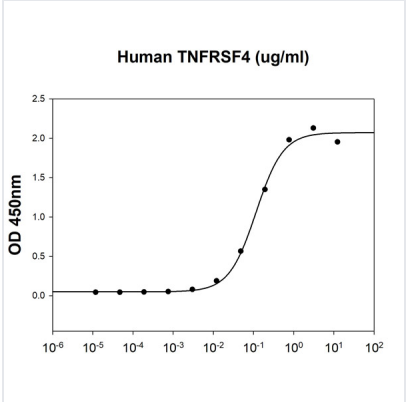
PRODUCT OVERVIEW

Product Name	OX40/TNFRSF4, Active Protein
Full Product Name	Recombinant human OX40/TNFRSF4 protein
Product Gene Name	OX40/TNFRSF4 active protein
Product Synonym Names	Tumor necrosis factor receptor superfamily member 4; TNFRSF4; ACT35; CD134; IMD16; OX40; TXGP1L; ACT35 antigen; OX40L receptor; TAX transcriptionally-activated glycoprotein 1 receptor
Sequence	LHCVGDTYPS NDRCCHECRP GNGMVSRCSR SQNTVCRPCG PGFYNDVVSS KPCKPCTWCN LRSGSERKQL CTATQDTVCR CRAGTQPLDS YKPGVDCAPC PPGHFSPGDN QACKPWTNCT LAGKHTLQPA SNSSDAICED RDPPATQPQE TQGPPARPIT VQPTEAWPRT SQGPSTRPVE VPGGRA
Host	Baculovirus
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Purity/Purification	>90% by SDS-PAGE
Concentration	0.5mg/ml (determined by absorbance at 280nm) (lot specific)
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	29,341 Da
Sequence Positions	29-214aa
OMIM	gene 615593
3D Structure	ModBase 3D Structure for P43489
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	hIgG-His-Tag
Predicted N-term	Leu29
Bioactivity	Measured by its binding ability in a functional ELISA with mouse OX40 Ligand/TNFSF4. The ED50 range <= 0.15ug/ml.
Product Categories/Family for OX40/TNFRSF4 active protein	Immunology; Proteins
Applications Tested/Suitable for OX40/TNFRSF4 active protein	SDS-PAGE, Bioactivity
Related Product Information for OX40/TNFRSF4 active protein	TNFRSF4, also known as tumor necrosis factor receptor superfamily member 4, is a T cell co-stimulatory molecule in the TNF receptor superfamily. This protein coordinates with other co-stimulatory substances (CD28, CD40, CD30, CD27 and 4-1BB) to control the activation of the immune response. It plays an important role in antigen-specific T cell expansion and survival. It is up-regulated on CD4+ and CD8+ T cells upon engagement of the TCR by antigen presenting cells along with co-stimulation by CD40-CD40 Ligand and CD28-B7. This protein also regulates cytokine production from T cells, antigen presenting cells, natural killer cells and natural killer cells and regulate cytokine receptor signaling. Recombinant human TNFRSF4, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Product References and Citations for OX40/TNFRSF4 active protein	Hori, T., et al. (2006) Int. J. Hematol. 83:17-22. Moran, A.E., et al. (2013) Curr. Opin. Immunol. 25:230-237.
Other Notes	Small volumes of OX40/TNFRSF4 active protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for OX40/TNFRSF4 purchase	MBS201358 is an active protein targeting OX40/TNFRSF4. Also known as Recombinant human OX40/TNFRSF4 protein. Host: Baculovirus.



SDS-Page of OX40/TNFRSF4 active protein
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.



Biological Activity of OX40/TNFRSF4 active protein
Mouse OX40 Ligand/TNFSF4 (CAT# ATGP4022) is coated at 1 ug/ml (100 ul/well) can bind Human TNFRSF4. The ED50 range <= 0.15 ug/ml.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OX40/TNFRSF4. It may not necessarily be applicable to this product.

NCBI GI #	4507579
NCBI GeneID	7293
NCBI Accession #	NP_003318.1
UniProt Primary Accession #	P43489
UniProt Secondary Accession #	Q13663; Q2M312; Q5T7M0
UniProt Related Accession #	P43489
GenBank Nucleotide #	NM_003327.3
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 4
NCBI Official Synonym Full Names	TNF receptor superfamily member 4
NCBI Official Symbol	TNFRSF4
NCBI Official Synonym Symbols	OX40; ACT35; CD134; IMD16; TXGP1L
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 4
UniProt Synonym Protein Names	ACT35 antigen; OX40L receptor; TAX transcriptionally-activated glycoprotein 1 receptor; CD_antigen: CD134
UniProt Gene Name	TNFRSF4
UniProt Synonym Gene Names	TXGP1L
UniProt Entry Name	TNR4_HUMAN
NCBI Protein Information	tumor necrosis factor receptor superfamily member 4

NCBI Summary for OX40/TNFRSF4	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor has been shown to activate NF-kappaB through its interaction with adaptor proteins TRAF2 and TRAF5. Knockout studies in mice suggested that this receptor promotes the expression of apoptosis inhibitors BCL2 and BCL2l1/BCL2-XL, and thus suppresses apoptosis. The knockout studies also suggested the roles of this receptor in CD4+ T cell response, as well as in T cell-dependent B cell proliferation and differentiation. [provided by RefSeq, Jul 2008]
UniProt Comments for OX40/TNFRSF4	TNFRSF4: Receptor for TNFSF4/OX40L/GP34. Protein type: Apoptosis; Receptor, misc.; Membrane protein, integral Chromosomal Location of Human Ortholog: 1p36 Cellular Component: cell surface; integral to plasma membrane; external side of plasma membrane Molecular Function: tumor necrosis factor receptor activity Biological Process: T cell proliferation; regulation of apoptosis; tumor necrosis factor-mediated signaling pathway; negative regulation of transcription factor activity; negative regulation of cytokine secretion; positive regulation of B cell proliferation; cellular defense response; immune response; positive regulation of immunoglobulin secretion; negative regulation of transcription, DNA-dependent; inflammatory response; regulation of protein kinase activity Disease: Immunodeficiency 16
Research Articles on OX40/TNFRSF4	**1.** Increased OX40 expression is associated with gastric cancer.
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