

Rev03  
Update: Dec,14,2021

## DATASHEET

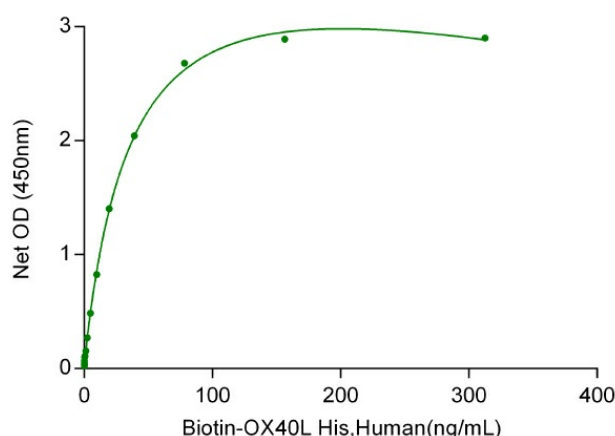
# OX40/TNFRSF4, His, Human

Cat. No.: Z03438

## Product Introduction

Species	Human
Protein Construction	<div><div>OX40/TNFRSF4 (Leu29-Ala216) Accession # P43489</div><div>Poly-His</div></div> <div>N-termC-term</div>
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	Immobilized OX40 His, human at 2.0 μg/ml (100 μl/well) can bind Biotin-OX40L His, Human when detected by Streptavidin-HRP.
Expression System	HEK 293
Apparent Molecular Weight	40~45 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, 5% trehalose and mannitol.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Examples



Immobilized OX40 His, human at 2  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) can bind Biotin-OX40L His, Human with a linear range of 1.22-19.53 ng/mL.

## Background

**Target Background :** OX40 is a T cell co-stimulatory molecule of the TNF receptor superfamily that coordinates with other co-stimulators (CD28, CD40, CD30, CD27 and 4-1BB) to manage the activation of the immune response. 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 cells such as DC2s (a subtype of dendritic cells) enabling amplification of Th2 cell differentiation. OX40 is constitutively expressed on Tregs and enhances the sensitivity of Tregs to IL-2, thus promoting Treg proliferation. OX40 has also shown to decrease the cells' immunosuppressive activity on effector T cells. OX40-OX40 Ligand signaling is involved in allergic airway inflammation, graft-versus-host disease and autoimmune disease.

**Synonyms :** ACT-135; ACT35 antigen; ACT35; CD134 antigen; CD134; Ly-70; OX40 cell surface antigen; OX40 homologue; OX40; OX40L receptor; OX40 lymphoid activation antigen ACT35

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**