

**OX40**  
**Catalog # PVGS1590****Specification**

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**OX40 - Product Information**

Primary Accession [P47741](#)  
**Species**  
Mouse

**Sequence**  
Val20-Pro 211

**Purity**  
> 95% as analyzed by SDS-PAGE

**Endotoxin Level**  
< 0.5 EU/ µg of protein by gel clotting method

**Expression System**  
HEK 293

Formulation **Lyophilized from a 0.2 µm filtered solution in PBS.**

**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.

**OX40 - Additional Information**

**Gene ID** 22163

**Other Names**  
Tumor necrosis factor receptor superfamily member 4, OX40 antigen, OX40L receptor, CD134, Tnfrsf4, Ox40, Txgp1

**Target Background**  
OX40 (TNFRSF4, CD134) is a member of the tumor necrosis factor (TNF) receptor superfamily that regulates T cell activity and immune responses. The OX40 protein contains four cysteine rich domains, a transmembrane domain, and a cytoplasmic tail containing a QEE motif. OX40 is primarily expressed on activated CD4<sup>+</sup> and CD8<sup>+</sup> T-cells, while the OX40 ligand (OX40L, TNFSF4, CD252) is predominantly expressed on activated antigen presenting cells. The engagement of OX40 with OX40L leads to the recruitment of TNF receptor-associated factors (TRAFs) and results in the formation of a TCR-independent signaling complex. One component of this complex, PKCθ,

activates the NF- $\kappa$ B pathway. OX40 signaling through Akt can also enhance TCR signaling directly. Research studies indicate that the OX40L-OX40 pathway is associated with inflammation and autoimmune diseases. Additional research studies show that OX40 agonists augment anti-tumor immunity in several cancer types.

## **OX40 - Protein Information**

**Name** Tnfrsf4

**Synonyms** Ox40, Txgp1

### **Function**

Receptor for TNFSF4/OX40L/GP34. Is a costimulatory molecule implicated in long-term T-cell immunity (By similarity).

### **Cellular Location**

Membrane; Single-pass type I membrane protein.

### **Tissue Location**

Expressed in CD4(+) T-cells and in T-helper Th17 cells (at protein level).

## **OX40 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **OX40 - Images**