



# Recombinant Protein Technical Manual

**Recombinant Human OX40/TNFRSF4 Protein (Fc Tag)(Active)**  
RPES1023

## Product Data:

**Product SKU:** RPES1023

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P43489

## Protein Information:

**Molecular Mass:** 46.8 kDa

**AP Molecular Mass:** 70 kDa

**Tag:** C-Fc

**Bio-activity:** Immobilized Human OX40L-6His(Cat: PKSH032842) at 2µg/ml(100 µl/well) can bind Human OX40-Fc. The ED50 of Human OX40-Fc is 4.23 ug/ml .

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Functional ELISA

**Synonyms:** Recombinant Human OX40/TNFRSF4 Protein (C-Fc)

## Immunogen Information:

**Sequence:** Leu29-Ala216

## Background:

OX40, also termed CD134 and TNFRSF4, is a T cell co-stimulatory molecule of the TNF receptor superfamily which plays a key role in the survival and homeostasis of effector and memory T cells. OX40 is expressed on CD4<sup>+</sup> and CD8<sup>+</sup> T cells upon engagement of the TCR by antigen presenting cells along with co-stimulation by CD40-CD40 Ligand and CD28-B7. The interaction between OX40 and OX40 ligand (OX40L) will occur when activated T cells bind to professional antigen-presenting cells (APCs). The T-cell functions, including cytokine production, expansion, and survival, are then enhanced by the OX40 costimulatory signals. OX40 signals are critical for controlling the function and differentiation of Foxp3<sup>+</sup> regulatory T cells. OX40-OX40L interaction regulates T-cell tolerance, peripheral T-cell homeostasis, and T-cell-mediated inflammatory diseases.