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OX40

Catalog # PVGS1590

Product Information

Primary Accession	P47741
Species	Mouse
Sequence	Val20-Pro 211
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	
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_2O 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.

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+ and CD8+ 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-κB 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.

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).