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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 Im 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

ddH₂O or PBS up to 100 □g/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, PKC0, activates the NF-kB 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.