



Recombinant Protein Technical Manual

Recombinant Human RANK/TNFRSF11A Protein (His Tag)

RPES3631

Product Data:

Product SKU: RPES3631

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q9Y6Q6

Protein Information:

Molecular Mass: 21.1 kDa

AP Molecular Mass: 25-30 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % 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, pH 7.4.

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

Application:

Synonyms: CD265; ODFR; TNFRSF11A; TRANCE R; CD265; CD265 antigen; FEO; ODFROSTS; OFE; OPTB7; PDB2; RANK1; Receptor activator of NF-KB; receptor activator of nuclear factor-kappa B; TRANCER; tumor necrosis factor receptor superfamily member 11A

Immunogen Information:

Sequence: Ile30-Pro212

Background:

Receptor Activator of Nuclear Factor κ B (RANK), also known as CD265, TRANCE Receptor or TNFRSF11A, is member of the tumor necrosis factor receptor (TNFR) molecular superfamily. RANK is the receptor for RANK-Ligand (RANKL) and part of the RANK/RANKL/OPG signaling pathway that regulates osteoclast differentiation and activation. It plays a vital role in bone remodeling and repair, immune cell function, lymph node development, thermal regulation, and mammary gland development. RANK is constitutively expressed in skeletal muscle, thymus, liver, colon, small intestine, adrenal gland, osteoclast, mammary gland epithelial cells, prostate, vascular cell, and pancreas.