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Product datasheet for TP727669

Tnfrsf11a Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse RANK/TNFRSF11A (C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Val31-Ser214
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Mouse Receptor Activator of NF-kappa B is produced by our Mammalian expression system and the target gene encoding Val31-Ser214 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	21934
UniProt ID:	O35305
Synonyms:	Receptor activator of NF-KB; tumor necrosis factor receptor superfamily member 11A; TRANCE receptor; Osteoclast differentiation factor receptor;NFKB activator; TRANCER; CD265; TNFRSF11A; TRANCE R; CD265 antigen; ODFR
Summary:	Receptor activator of NF-Î°B(RANK,TNFRSF11A) belongs to one member of tumor necrosis factor receptor family.It is a receptor for TNFSF11/RANKL/TRANCE/OPGL. This gene encodes a type 1 membrane protein with a 30 amino acids (aa) signal peptide, 184 aa extracellular region , a 20 aa transmembrane domain and a 391 aa cytoplasmic region. Human and murine RANK share 81% aa identity in their extracellular domains. RANK is ubiquitous highly expressed in trabecular bone, thymus, small intestine, lung, brain and kidney, but weakly expressed in spleen and bone marrow. After binding its ligand RANKL, RANK can activate signaling pathways such as NF-Î°B, JNK, ERK, p38, and Akt/PKB, through TRAF protein phosphorylation. RANK/TNFRSF11A signaling is largely considered to be growth promoting and apoptosis reducing such as the effects observed in osteoclasts. RANK/TNFRSF11A was also found to be involved in the regulation of interactions between T-cells and dendritic cells.

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