Recombinant Mouse tumor necrosis factor receptor superfamily, member 11a, NFKB activator Protein, His&Fc tagged

Cat. No. Tnfrsf11a-08M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse RANK (31-214aa), fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Baculovirus
ProteinLength	31-214aa
Description	Enables tumor necrosis factor-activated receptor activity. Involved in several processes, including circadian temperature homeostasis; positive regulation of fever generation by positive regulation of prostaglandin secretion; and tumor necrosis factor-mediated signaling pathway. Acts upstream of or within several processes, including hematopoietic or lymphoid organ development; mammary gland alveolus development; and positive regulation of bone resorption. Located in cell surface. Is expressed in bladder and lymphatic system. Human ortholog(s) of this gene implicated in Paget''s disease of bone; autosomal recessive osteopetrosis 7; bone development disease; familial expansile osteolysis; and osteoporosis. Orthologous to human TNFRSF11A (TNF receptor superfamily member 11a).
Tag	C-His&Fc

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Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Mouse RANKL/TNFSF11. The ED50 range ≤ 200 ng/mL.
Molecular Mass	47.5 kDa
AA Sequence	VTPPCTQERHYEHLGRCCSRCEPGKYLSSKCTPTSDSVCLPCGPDEYLDTWNEED KCLLHKVCDAGKALVAVDPGNHTAPRRCACTAGYHWNSDCECCRRNTECAPGFG AQHPLQLNKDTVCTPCLLGFFSDVFSSTDKCKPWTNCTLLGKLEAHQGTTESDVVC SSSMTLRRPPKEAQAYLPS
Endotoxin	< 1 EU/µg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	1 mg/mL (determined by absorbance at 280nm)
References	1. Anderson, D.M. et al. (1997) Nature 390, 175-179. 2. Nakagawa, N. et al. (1998) Biochem. Biophys. Res. Commun. 245:395-400. 3. Bharat B. Aggarwal. (2003) Nature 3, 745-756.

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GENE INFORMATION

Gene Name	Tnfrsf11a tumor necrosis factor receptor superfamily, member 11a, NFKB activator [Mus musculus (house mouse)]
Official Symbol	Tnfrsf11a
Synonyms	Tnfrsf11a; tumor necrosis factor receptor superfamily, member 11a, NFKB activator; OFE; ODFR; Rank; Ly109; mRANK; TRANCE-R; tumor necrosis factor receptor superfamily member 11A; osteoclast differentiation factor receptor; receptor activator of NF-KB; receptor activator of NF-kappaB
Gene ID	21934
mRNA Refseq	NM_009399
Protein Refseq	NP_033425
UniProt ID	O35305

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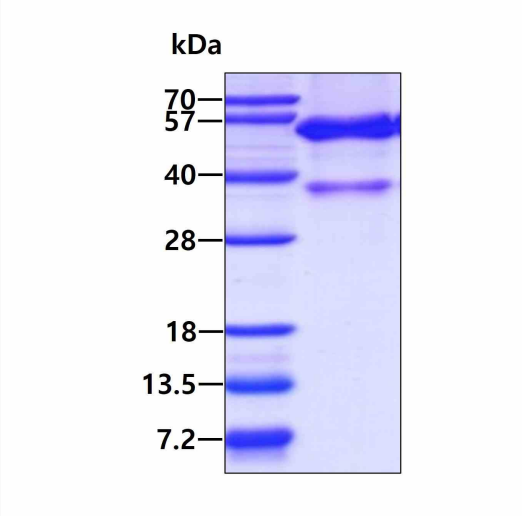
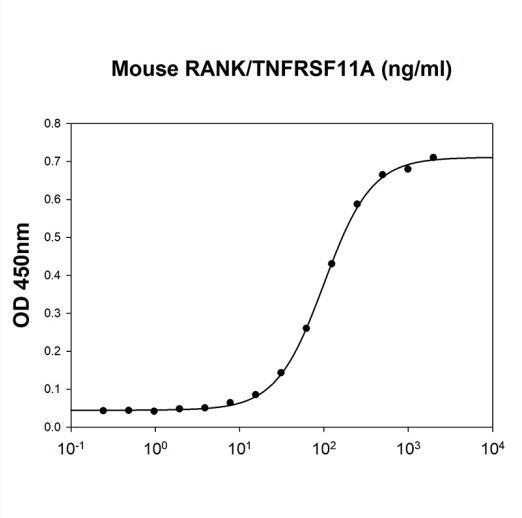
SDS-PAGE	 3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.
Activity	 Mouse RANKL/TNFSF11 is coated at 1 µg/mL (100 µL/well) can bind Mouse RANK/TNFRSF11A. The ED50 range ≤ 200 ng/mL.

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