Recombinant Mouse Tnfsf11 Protein, His-tagged

Cat. No. Tnfsf11-1258M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tnfsf11 Protein (Arg72-Asp316) with His tag was expressed in 293F.
Species	Mouse
Source	HEK293
ProteinLength	Arg72-Asp316
Description	Enables identical protein binding activity and tumor necrosis factor receptor superfamily binding activity. Involved in several processes, including intracellular signal transduction; positive regulation of secretion by cell; and tumor necrosis factor-mediated signaling pathway. Acts upstream of or within several processes, including animal organ development; cellular response to cytokine stimulus; and positive regulation of intracellular signal transduction. Predicted to be located in cytoplasm; extracellular space; and plasma membrane. Predicted to be integral component of membrane. Is expressed in genitourinary system; hemolymphoid system; hindlimb long bone; and lymphatic system. Used to study autosomal recessive osteopetrosis 2 and osteoporosis. Human ortholog(s) of this gene implicated in autosomal recessive osteopetrosis 2 and osteoporosis. Orthologous to human TNFSF11 (TNF superfamily member 11).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.2 kDa; Accurate Molecular Mass: 35 kDa

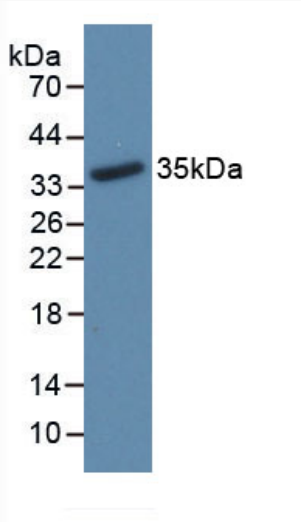
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Purity	> 90%
Applications	Cell culture; Activity Assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.
Handling	Reconstitute in 10mM PBS (pH7.6) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

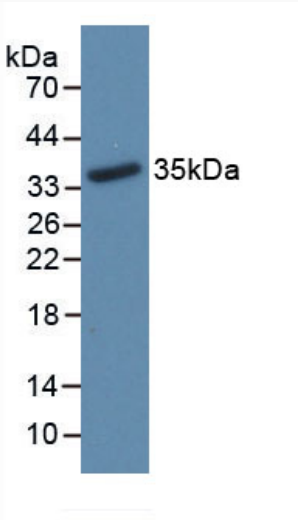
Gene Name	Tnfsf11 tumor necrosis factor (ligand) superfamily, member 11 [Mus musculus (house mouse)]
Official Symbol	Tnfsf11
Synonyms	TNFSF11; tumor necrosis factor (ligand) superfamily, member 11; tumor necrosis factor ligand superfamily member 11; OPG ligand; osteoprotegerin ligand; osteoclast differentiation factor; receptor activator of NF-kappaB ligand; TNF-related activation-induced cytokine; receptor activator of nuclear factor kappa B ligand; receptor activator of nuclear factor kappa-B ligand; tumor necrosis factor-related activation-

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	induced cytokine; ODF; OPG; OPGL; RANKL; Ly109l; Trance;
Gene ID	21943
mRNA Refseq	NM_011613
Protein Refseq	NP_035743
UniProt ID	O35235
	

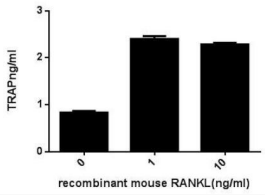
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WB



TRAP levels in the cell of RAW264.7 cells induced by RANKL.

Sample (cell supernatant of RAW264.7 cells)	O.D. value	Corrected	Concentration of TRAP (ng/mL)
stimulated with RANKL(1ng/mL)	0.665	0.609	2.36
stimulated with RANKL(10ng/mL)	0.631	0.574	2.21
unstimulated	0.209	0.152	0.86



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