

Active Recombinant Mouse Tnfrsf11b Protein, His tagged

Cat. No. Tnfrsf11b-04M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Tnfrsf11B (22-401 aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
ProteinLength	22-401 aa
Description	Enables heparan sulfate binding activity. Involved in negative regulation of osteoclast differentiation. Acts upstream of or within extracellular matrix organization; negative regulation of odontogenesis of dentin-containing tooth; and negative regulation of tumor necrosis factor-mediated signaling pathway. Located in extracellular matrix. Is expressed in several structures, including arterial system; bone; gut; hemolymphoid system gland; and placenta. Used to study osteoporosis. Human ortholog(s) of this gene implicated in Paget's disease of bone; Paget's disease of bone 5; and osteoarthritis. Orthologous to human TNFRSF11B (TNF receptor superfamily member 11b).
Form	Liquid
AASequence	ETLPPKYLHYDPETGHQLLCDKCAPGTYLKQHCTVRRKTL CVPCPDHSY TDSWHTS DECVYCSPVCKELQSVKQECNRTHNRVCECEEGRYLEIEFCLKHRSCPPGSGVVQ AGTPERN TVCKKCPDGGFFSGETSSKAPCIKHTNCSTFGLLLIQGNATHDNVCSGN

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REATQKCGIDVTLCEEAFFRFAVPTKIIPNWLSVLVDSLPGTKVNAESVERIKRRHSS
 QEQTFQLLKLWKHQNRDQEMVKKIQQDIDLCESSVQRHLGHSNLTTEQLLALMESLP
 GKKISPEEIERTRKTCKSSEQLLKLLSLWRIKNGDQDTLKGLMYALKHLKTSHFPKTV
 THSLRKTMRFLHSFTMYRLYQKLFLEMIGNQVQSVKISCL

Molecular Mass	44.4 kDa
Bio-activity	Measured by its ability to inhibit cytotoxicity using Jurkat human acute T cell leukemia cells in the presence of 2 ng/mL of human TRAIL. The ED50 range \leq 50 ng/mL.
Endotoxin	< 1 EU/ μ g of protein determined by LAL method
Purity	> 90% by SDS-PAGE
Application	SDS-PAGE, Bioactivity
Note	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	0.25 mg/mL (determined by absorbance at 280nm)

GENE INFORMATION

Gene Name [Tnfrsf11b tumor necrosis factor receptor superfamily, member 11b \(osteoprotegerin\) \[Mus musculus \(house mouse\) \]](#)

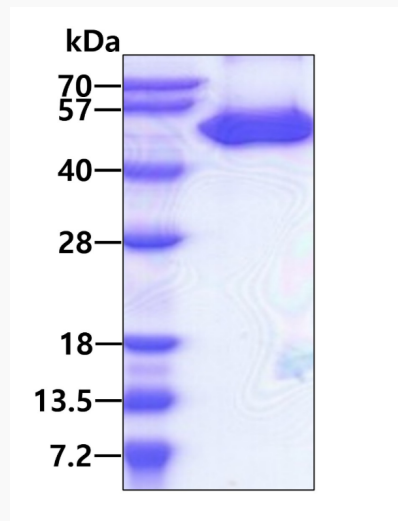
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Official Symbol [Tnfrsf11b](#)**Synonyms**

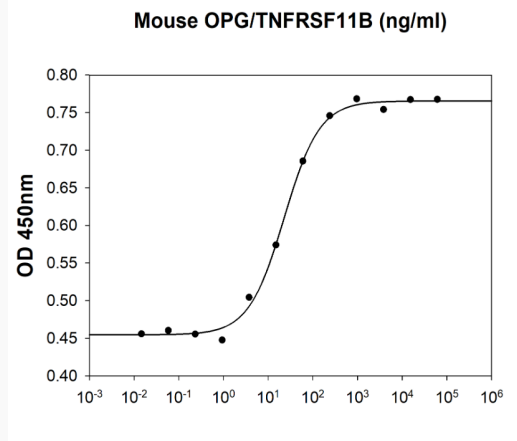
Tnfrsf11b; tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin); Opg; TR1; OCIF; tumor necrosis factor receptor superfamily member 11B; osteoclastogenesis inhibitory factor; osteoprotegerin

Gene ID [18383](#)**mRNA Refseq** [NM_008764](#)**Protein Refseq** [NP_032790](#)**UniProt ID** [O08712](#)**SDS-PAGE**

3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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Biological Activity



Human Mouse OPG/TNFRSF11B inhibits Human TRAIL cytotoxicity in the Jurkat human acute T cell leukemia cells. The ED50 range ≤ 50 ng/mL.

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