

Product datasheet for PH318782

RANKL (TNFSF11) (NM_003701) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TNFSF11 MS Standard C13 and N15-labeled recombinant protein (NP_003692)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218782
Predicted MW:	35.3 kDa
Protein Sequence:	>RC218782 representing NM_003701 Red=Cloning site Green=Tags(s) MRRASRDYTKYLRGSEEMGGPGAPHEGPLHAPPPAPHQPPAASRSMFVALLGLGLGQVVCVALFFYF RAQMDPNRISEDGTHCIYRILRLHENADFQDTTLESQDTKLIPDSCRRIKQAFQGAVQKELQHIVGSQHI RAEKAMVDGSWDLAKRSKLEAQPFAHLTINATDIPSGSHKVSLSSWYHDRGWAKISNMTFSNGKLIVNQ DGFYYLYANICFRHHETSGDLATEYLQLMYYVTKTSIKIPSSHTLMKGGSTKYWSGNSEHFYSINVGGF FKLRSGEEISIEVSNPSLLDPDQDATYFGAFKVRDID SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_003692
RefSeq Size:	2226
RefSeq ORF:	951
Synonyms:	CD254; hRANKL2; ODF; OPGL; OPTB2; RANKL; sOdf; TNLG6B; TRANCE
Locus ID:	8600



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UniProt ID: [O14788](#), [Q5T9Y4](#)

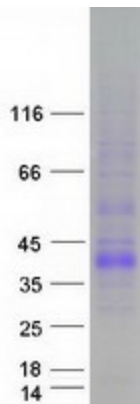
Cytogenetics: 13q14.11

Summary: This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. This protein was shown to be a dendritic cell survival factor and is involved in the regulation of T cell-dependent immune response. T cell activation was reported to induce expression of this gene and lead to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis factor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regulation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript variants have been found. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

Product images:



Coomassie blue staining of purified TNFSF11 protein (Cat# [TP318782]). The protein was produced from HEK293T cells transfected with TNFSF11 cDNA clone (Cat# [RC218782]) using MegaTran 2.0 (Cat# [TT210002]).