

For Research Use Only

Recombinant Human TNFSF11/RANKL protein (rFc Tag)

Catalog Number: Eg2564



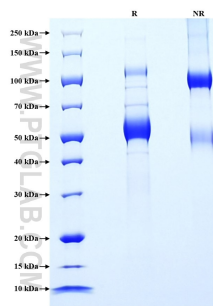
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Human TNFSF11 protein Gly64-Asp245 (Accession# AAC51762.1) with a rabbit IgG Fc tag at the N-terminus. GeneID: 8600 Accession: AAC51762.1 Predicted Molecular Mass: 47.7 kDa SDS-PAGE: 48-60 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	TNFSF11 also known as RANKL, is 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. RANKL is produced by a diverse set of lineage-specific cells and is involved in a wide variety of physiological processes that include skeletal remodeling, lymph node organogenesis, mammary gland development, and thermal regulation. RANKL was shown to be a dendritic cell survival factor and is involved in the regulation of T cell-dependent immune response. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy.		
References	1. Giuliani N. et al. (2004) Exp Hematol. 32(8):685-91. 2. Hanada R. et al. (2011) J Mol Med (Berl). 89(7):647-56. 3. Onal M. et al. (2015) J Bone Miner Res. 30(5):855-68. 4. Danks L. et al. (2016) Ann Rheum Dis. 75(6):1187-95.		
Synonyms	TNFSF11, CD 254, CD254, Receptor activator of nuclear factor kappa-B ligand, TNF-related activation-induced cytokine		

For technical support and original validation data for this product please contact

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Purity of Recombinant Human TNFSF11 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.