Tumor necrosis factor ligand superfamily member 11

Catalog No: #AP78697

Package Size: #AP78697-1 50ug #AP78697-2 100ug #AP78697-3 1mg

Orders: order@signalwayantibody.com
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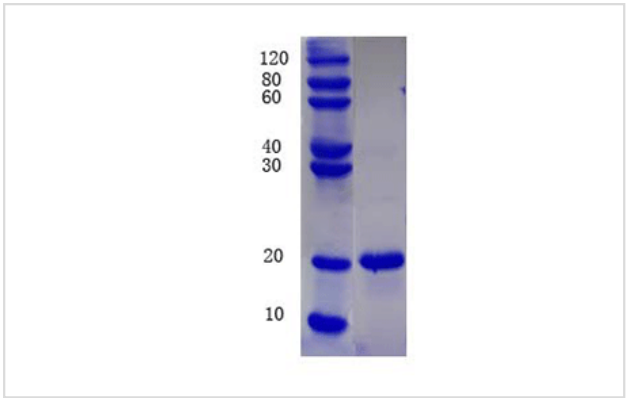
Description

Product Name	Tumor necrosis factor ligand superfamily member 11
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Human
Immunogen Description	77-194AA
Other Names	OPGL,RANKL,TRANCE,Osteoclast differentiation factor,Osteoprotegerin ligand,Receptor activator of nuclear factor kappa-B ligand,TNF-related activation-induced cytokine,ODF,OPGL,RANKL,TRANCE,CD254
Accession No.	O14788Gene name:TNFSF11
Uniprot	O14788
GeneID	8600;
Calculated MW	12.98
Tag Info	His
Formulation	50mM NaH2PO4, 500mM NaCl Buffer with 500mM Imidazole,10%glycerol(PH8.0)
Storage	Store at -20C. (Avoid repeated freezing and thawing.)Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Images



Background

Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation and activation factor. Augments the ability of dendritic cells to stimulate naive T-cell proliferation. May be an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy (PubMed:22664871). Induces osteoclastogenesis by activating multiple signaling pathways in osteoclast precursor cells, chief among which is induction of long lasting oscillations in the intracellular concentration of Ca (2+) resulting in the activation of NFATC1, which translocates to the nucleus and induces osteoclast-specific gene transcription to allow differentiation of osteoclasts. During osteoclast differentiation, in a TMEM64 and ATP2A2-dependent manner induces activation of CREB1 and mitochondrial ROS generation necessary for proper osteoclast generation.

References

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Note: This product is for in vitro research use only