

For Research Use Only

TNFSF11/RANKL Recombinant monoclonal antibody, PBS Only

Catalog Number: 85321-2-PBS



Basic Information

Catalog Number: 85321-2-PBS	GenBank Accession Number: NM_003701	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 8600	CloneNo.: 251930C5
Isotype: IgG	UNIPROT ID: O14788	
Immunogen Catalog Number: EG2564	Full Name: tumor necrosis factor (ligand) superfamily, member 11	
	Calculated MW: 28KD	
	Observed MW: 35 kDa	

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse

Background Information

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 a polypeptide of 217 amino acids that exerts its biological activity both in a transmembrane form of about 40-45 kDa and in soluble one of 31 kDa (PMID: 15308315). The membrane-bound RANKL (mRANKL) is cleaved into a sRANKL by the metalloprotease-disintegrin TNF-alpha convertase (TACE) or a related metalloprotease (MP). RANKL induces osteoclast formation through its receptor, RANK, which transduces signals by recruiting adaptor molecules, such as the TNF receptor-associated factor (TRAF) family of proteins. RANKL 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. RANKL 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.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

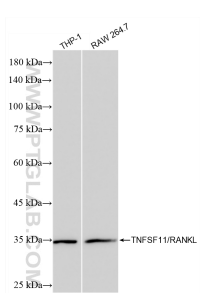
T: 4006900926

E: Proteintech-CN@ptglab.com

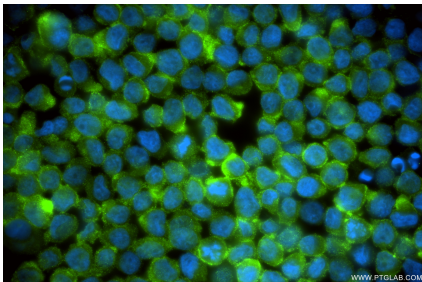
W: ptgcn.com

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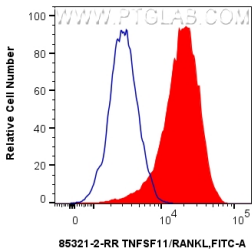
Selected Validation Data



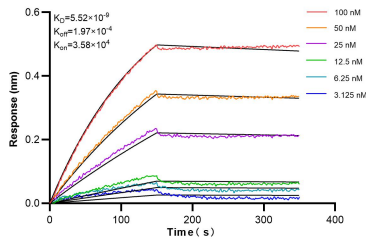
Various lysates were subjected to SDS PAGE followed by western blot with 85321-2-RR (TNFSF11/RANKL antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85321-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using TNFSF11/RANKL antibody (85321-2-RR, Clone: 251930C5) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 85321-2-PBS in a different storage buffer formulation.



1x10⁶ MJ cells were intracellularly stained with 0.25 ug TNFSF11/RANKL Recombinant monoclonal antibody (85321-2-RR, Clone:251930C5) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019). This data was developed using



Biolayer interferometry (BLI) kinetic assays of 85321-2-RR against Human TNFSF11/RANKL were performed. The affinity constant is 5.52 nM.