

For Research Use Only

TNFSF11/RANKL Monoclonal antibody, PBS Only (Capture)

Catalog Number: 66610-1-PBS

Featured Product



Basic Information

Catalog Number:

66610-1-PBS

Size:

1000 μ g/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG19975

GenBank Accession Number:

BC074890

GeneID (NCBI):

8600

UNIPROT ID:

O14788

Full Name:

tumor necrosis factor (ligand) superfamily, member 11

Calculated MW:

317 aa, 35 kDa

Observed MW:

35-38 kDa

Purification Method:

Protein A purification

CloneNo.:

3F2E1

Applications

Tested Applications:

WB, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:

human, mouse, rat

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- α 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

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

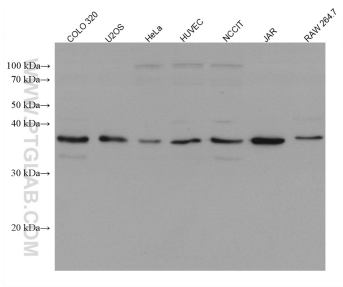
T: 4006900926

E: Proteintech-CN@ptglab.com

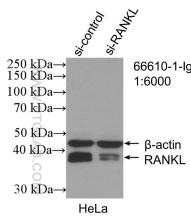
W: ptgcn.com

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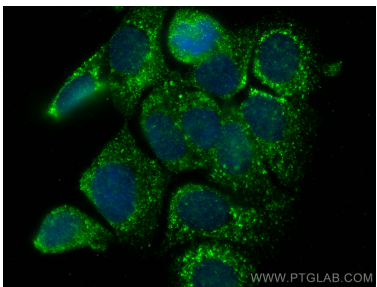
Selected Validation Data



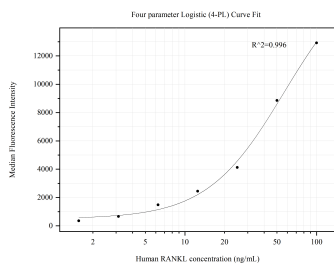
Various lysates were subjected to SDS PAGE followed by western blot with 66610-1-Ig (RANKL antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66610-1-PBS in a different storage buffer formulation.



WB result of RANKL antibody (66610-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RANKL transfected HeLa cells. This data was developed using the same antibody clone with 66610-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using RANKL antibody (66610-1-Ig, Clone: 3F2E1) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66610-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP50526-1, RANKL Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66610-1-PBS. Detection antibody: 66610-2-PBS. Standard:Ag19975. Range: 1.563-100 ng/mL.