

For Research Use Only

TNFSF11/RANKL Monoclonal antibody

Catalog Number: 66610-1-Ig

Featured Product

10 Publications



Basic Information

Catalog Number:

66610-1-Ig

Size:

150ul, Concentration: 2200 ug/ml by 8600 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

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

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB: COLO 320 cells, HeLa cells, U2OS cells, HUVEC cells, NCCIT cells, human spleen tissue, DC2.4 cells, JAR cells, RAW 264.7 cells

IF/ICC: MCF-7 cells,

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Qian Liang	33795653	Cell Death Dis	WB, IF
Ana Crastin	39713898	Adv Healthc Mater	IF
Qun Wu	39155743	Folia Histochem Cytobiol	WB,IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

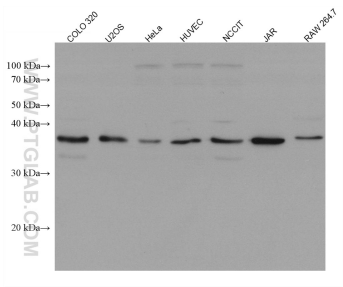
For technical support and original validation data for this product please contact:

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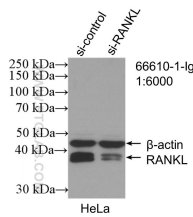
E: proteintech@ptglab.com
W: ptglab.com

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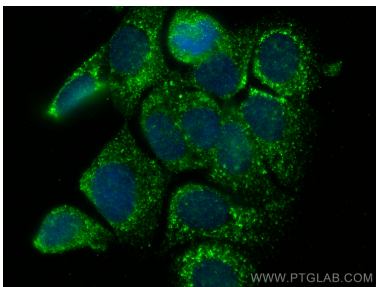
Selected Validation Data



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.



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.



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).