For Research Use Only

TNFSF11/RANKL Monoclonal antibody, PBS Only (Capture)

Catalog Number:66610-1-PBS Featured Product

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
66610-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

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

Product Information

66610-1-PBS targets TNFSF11/RANKL as part of a matched antibody pair:

MP50526-1: 66610-1-PBS capture and 66610-2-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

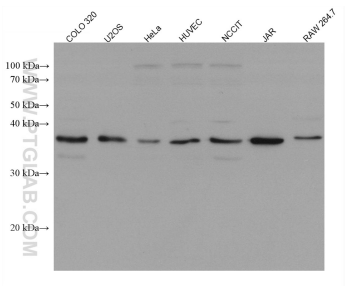
TNFSF11 also known as RANKL, is a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. RANKL is a polypeptide of 217 amino acids that exerts its biological activity both in a transmembrane 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 dentritic 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

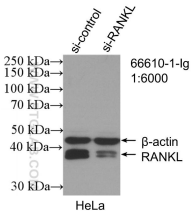
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

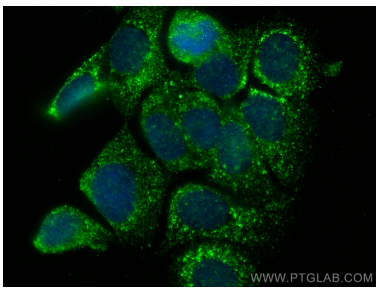
Selected Validation Data



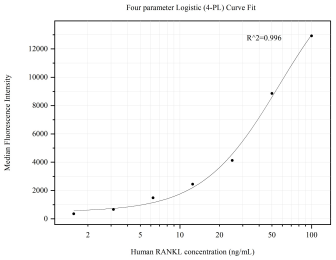
Various lysates were subjected to SDS PAGE followed by western blot with 66610-1-Ig (RANKL antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66610-1-PBS in a different storage buffer formulation.



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.