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Datasheet for 600-401-EU7

sRANK Ligand Antibody

Overview

Description:	Anti-sRANK Ligand (RABBIT) Antibody - 600-401-EU7
Item No.:	600-401-EU7
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The receptor activator of NF-kB ligand (RANK-L) is a recently discovered member of the TNF-ligand family involved in the regulation of the T cell-dependent immune response, lymph node organogenesis and bone formation. RANK-L exists as both a normal, transmembrane form and a truncated, soluble form (sRANK-L), both of which can stimulate the receptor. Activation of T cells, such as by treatment with interleukin-7, induces RANK-L production and leads to an increase of osteoclast formation and bone loss. Finally, sRANK-L can activate the antiapoptotic kinase Akt through a signaling complex involving Src kinase and TRAF6, suggesting sRANK-L may also play a role in regulating apoptosis. This antibody will recognize both the soluble form and the uncleaved transmembrane form of RANK-L.
Synonyms:	sRANK Ligand Antibody, ODF, OPGL, sOdf, CD254, OPTB2, RANKL, TRANCE, hRANKL2, Tumor necrosis factor ligand superfamily member 11, Osteoclast differentiation factor, ODF
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TNFSF11
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-sRANK-L antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide from near the internal region of human sRANK-L.
Purity/Specificity:	Anti-sRANK Ligand Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with sRANK Ligand from other sources has not been determined.
Relevant Links:	• UniProtKB - O14788 • GeneID - 8600 • NCBI - NP_003692.1

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-sRANK Ligand Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 35 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,500 - 1:5,000
IHC:	5 µg/mL
WB:	.25-.5 µg/mL

Formulation

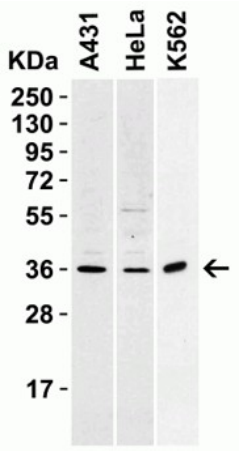
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

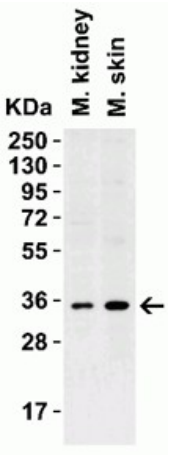
Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

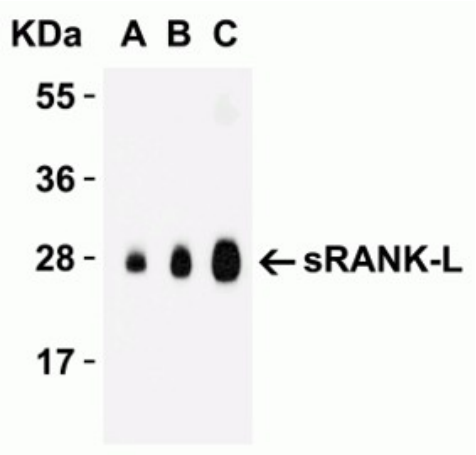
Images



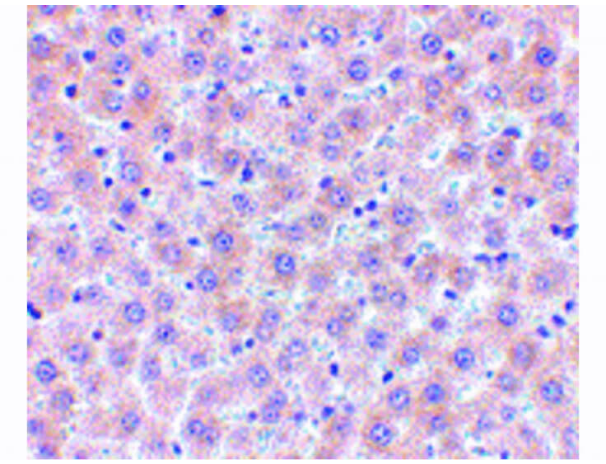
Western Blot
Western Blot Validation. Loading: 15 µg of human cell line lysates per lane. Antibodies: sRANK-L (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



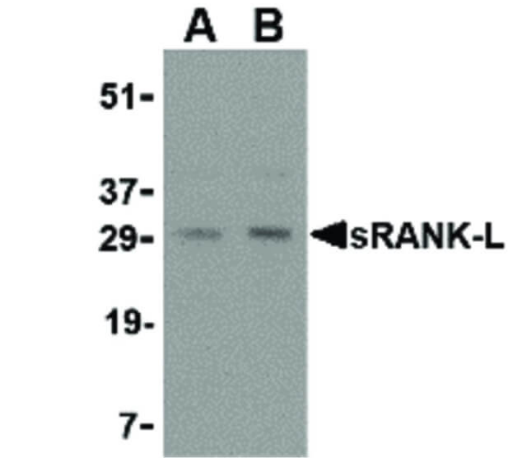
Western Blot
Western Blot Validation. Loading: 15 µg of mouse tissue lysates per lane. Antibodies: sRANK-L (2 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot Validation with Recombinant Protein. Loading: 30 ng of human sRANK-L recombinant protein per lane. Antibodies: sRANK-L (A: 1 µg/mL, B: 2 µg/mL and C: 4 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Observed at around 27kD.



Immunohistochemistry
Immunohistochemistry of sRANK-L antibody. Tissue: human liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: sRANK-L antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: sRANK-L is located in the endoplasmic reticulum and cell membrane. Staining: sRANK-L is stained with hematoxylin purple nuclear counterstain.



Western Blot
Western Blot of sRANK-L antibody in rat liver tissue lysate. Lane A: sRANK-L antibody at 0.25 µg/mL. Lane B: sRANK-L antibody at 0.5 µg/mL. Load: 35 µg per lane. Primary antibody: sRANK-L antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 53 kDa, 30 kDa for sRANK-L. Other band(s): sRANK-L splice variants and isoforms.

Disclaimer

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