RANKL Polyclonal Antibody

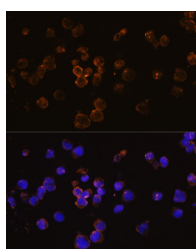|			
Catalog No.	E-AB-60724	**Reactivity**	H,M,R
Storage	Store at -20°C. Avoid freeze / thaw cycles.	**Host**	Rabbit
Applications	IHC,IF	**Isotype**	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images
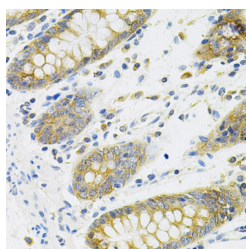
Immunohistochemistry of paraffin-embedded Human colon using RANKL Polyclonal Antibody at dilution of 1:100 (40x lens).

Immunofluorescence analysis of Jurkat cells using RANKL Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

Immunogen Information

Immunogen	Recombinant fusion protein of human RANKL (NP_003692.1).
GeneID	8600
Swissprot	O14788
Synonyms	TNFSF11,CD254,ODF,OPGL,OPTB2,RANKL,TNLG6B,TRANCE,hRANKL2,sOdf

Product Information

Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purify	Affinity purification
Dilution	IHC 1:50-1:200 IF 1:50-1:200

Background

This gene encodes 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. This protein 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. This protein 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. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript variants have been found.