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Rabbit Anti-RANK/AF350 Conjugated antibody

SL2695R-AF350

Product Name	Anti-RANK/AF350
Chinese Name	AF350 标记的核转录因子 NF-κB 受体抗体(核因子 kB 受体活化因子)
Alias	TNFRSF11A; CD265; CD265 antigen; Activator of NFKB; EOF; FEO; mRANK; NFKB activator; ODFR; OFE; Osteoclast differentiation factor receptor; PDB 2; Receptor activator of NF KB; receptor activator of nuclear factor kappa B; TNFRSF 11A; TNFSF11; TRANCE R; RANK receptor; TNR11_HUMAN.
Research Area	Tumour Cell biology transcriptional regulatory factor Cell Surface Molecule
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human
Applications	Flow-Cyt=1μg /test,ICC/IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	63-70kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human RANK C-terminus
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** CD265 is a member of the tumor necrosis factor receptor (TNFR) family. Human and murine CD265 share 81% amino acid identity in their

extracellular domains. CD265 is widely expressed, with highest levels in skeletal muscle, thymus, liver, colon, small intestine and adrenal gland. CD265 is also expressed in dendritic cells. RANK and RANK ligand (RANKL) are important regulators of interactions between T cells and dendritic cells. RANK is the essential signaling receptor for osteoclast differentiation factor in osteoclastogenesis. Multiple tumor necrosis factor receptor-associated factors (TRAFs) are involved in the signaling of CD265. TRANCE (TNF-related activation-induced cytokines, also known as RANK ligand, osteoprotegerin ligand and osteoclast differentiation factor) is the ligand for CD265. The biological functions mediated by RANK include activation of NFkappaB and cjun N-terminal kinase, enhancement of T cell growth and dendritic cell function, induction of osteoclastogenesis and lymph node organogenesis. The soluble form of CD265 is able to block TRANCE induced biological activity. The binding of anti-CD265 to cell surface CD265 triggers signal transduction and induces CD265 mediated bioactivity.

Function:
Receptor for TNFSF11/RANKL/TRANCE/OPGL; essential for RANKL-mediated osteoclastogenesis. Involved in the regulation of interactions between T-cells and dendritic cells.

Subcellular Location:
Membrane.

Tissue Specificity:
Ubiquitous expression with high levels in skeletal muscle, thymus, liver, colon, small intestine and adrenal gland.

DISEASE:
Defects in TNFRSF11A are the cause of familial expansile osteolysis (FEO) [MIM:174810]. FEO is a rare autosomal dominant bone disorder characterized by focal areas of increased bone remodeling. The osteolytic lesions develop usually in the long bones during early adulthood. FEO is often associated with early onset deafness and loss of dentition.
Defects in TNFRSF11A are a cause of Paget disease of bone type 2 (PDB2) [MIM:602080]; also known as familial Paget disease of bone. PDB2 is a bone-remodeling disorder with clinical similarities to FEO. Unlike FEO, however, affected individuals have involvement of the axial skeleton with lesions in the spine, pelvis and skull.

Similarity:
Contains 4 TNFR-Cys repeats.

Database links:

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Entrez Gene: 8792 Human

Omim: 603499 Human

SwissProt: Q9Y6Q6 Human

Unigene: 204044 Human

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.