

## Product datasheet for **TA320494**

### **Tnfrsf11a Rat Monoclonal Antibody [Clone ID: R12-31]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	R12-31
Recommended Dilution:	Flow
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	tumor necrosis factor receptor superfamily, member 11a, NFkB activator
Database Link:	<a href="#">NP_033425</a> <a href="#">Entrez Gene 21934 Mouse</a> <a href="#">O35305</a>

**Background:** The R12-31 monoclonal antibody reacts with mouse RANK (Receptor activator of NF- $\kappa$ B), a recently cloned member of the TNFR superfamily with no significant homology to other members of this family. RANK ligand (RANKL/TRANCE/ OPGL) binds to RANK on dendritic cells, upregulates the expression of anti-apoptotic protein Bcl-XL suggesting a role in dendritic cell survival. The cytoplasmic domain of RANK interacts with TRAF2, TRAF5 and TRAF6. Overexpression of RANK activates NF- $\kappa$ B and c-Jun-terminal kinase (JNK) pathways. Recent studies have shown that RANK interaction with TRAF6 activates NF- $\kappa$ B, whereas JNK activation is mediated through binding of RANK to TRAF2.

**Synonyms:** CD265; FEO; LOH18CR1; ODFR; OFE; OPTB7; OST5; PDB2; RANK; TRANCER



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