

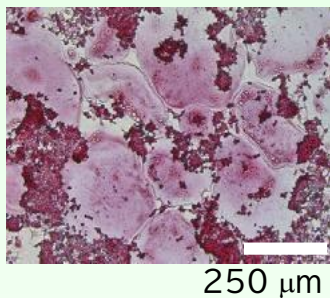
# RANKL related products

Recombinant Human sRANKL  
 Anti-Human RANKL Monoclonal Antibody  
 Anti-Mouse RANKL Monoclonal Antibody  
 TRAP solution Kit

Receptor activator of NF- $\kappa$ B ligand (RANKL), also designated TRANCE, OPG and ODF, is a member of the TNF family that is expressed in osteoblasts, activated T cells, and so on.

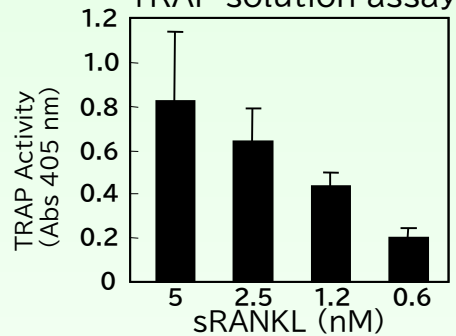
RANKL interacts with its receptor RANK expressed on osteoclast progenitors and mature dendritic cells, leading to osteoclastogenesis and T cell proliferation, respectively.

Fig. 1 A RAW 264 cells



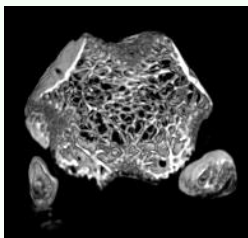
A: sRANKL (5 nM) induced osteoclastogenesis in RAW264 cells. Osteoclasts were identified as tartrate-resistant acid phosphatase (TRAP) positive multinucleated cells shown in red.

Fig. 1 B TRAP solution assay



B: TRAP activity was induced in the cells by sRANKL in a dose dependent manner.

sRANKL treatment



2 days

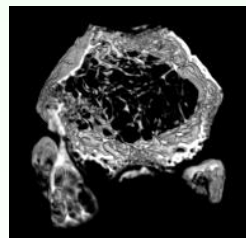
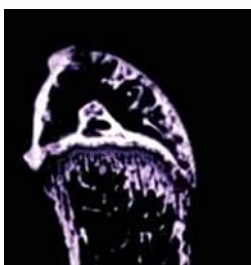


Fig. 2  
 Intraperitoneal injections of sRANKL (1 mg/kg) induced mouse bone loss model in 50 hrs. 3D images of femurs in the sRANKL-induced bone loss mice.

Fig. 2

Anti-mouse RANKL



2 weeks

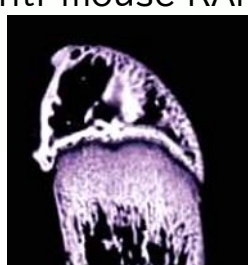


Fig. 3  
 Single subcutaneous injection of anti-mouse RANKL MCA (5 mg/kg) induced mouse osteopetrotic model with high bone mass in 2 weeks. 3D images of femurs in the anti-RANKL-induced high bone mass mice.

Fig. 3

## Specifications

### Recombinant Protein

Item	Host	M.W.	Concentration	Catalog number	Packing size
Human sRANKL	Human	47 kDa	1 mg/mL	47187000	20 µg

### Antibody

Item	Application	Source	Reactivity	Catalog number	Packing size
Anti-Human RANKL Monoclonal Antibody	WB/ELISA	Mouse IgG <sub>1κ</sub>	Human	47254000	100 µg
	Neu	Mouse IgG <sub>1κ</sub>	Human	47102000	100 µg
	FACS	Mouse IgG <sub>2bκ</sub>	Human	47105000	200 µg
Anti-Mouse RANKL Monoclonal Antibody	WB/ELISA	Rat IgG <sub>2a</sub>	Mouse	47103001	200 µg
	FACS	(OYC2)			
	WB/ELISA	Rat IgG <sub>2a</sub>	Mouse	47104001	200 µg
	FACS/Neu	(OYC1)			

## Related products

Item	Catalog number	Packing size
TRAP solution Kit	47249000	500 test

\*For bulk inquiry, please contact us below.

\*For research purposes only. Not for therapeutic or diagnostic use.

## References

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2. Yasuda, H. (2013) World J Orthop. 4: 207-217
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7. Tomimori, Y. et al. (2009) J.Bone Miner.Res. 24:1194-1205
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