

# CD254 (RANK Ligand) Monoclonal Antibody (MIH24), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotope	Mouse / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	MIH24
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_468184

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	1 µg/test	1 Publication
ELISA (ELISA)	✓	Assay-Dependent	

## Product Specific Information

**Description:** The MIH24 monoclonal antibody reacts with human TRANCE (TNF-related activation-induced cytokine receptor) also known as RANKL (receptor activator of NF-kappaB ligand) and OPGL (Osteoprotegerin Ligand). TRANCE is a type II membrane protein with predicted molecular weight of 35 kDa. Its extracellular domain is most closely related to TRAIL, FasL and TNF. TRANCE mRNA is upregulated by TCR stimulation. TRANCE-deficient mouse lacks osteoclasts. In addition, TRANCE has been shown to be involved in the interactions between T-dendritic and T-B cells. It was also found to be critical in osteoclast differentiation. The TRANCE-RANK interaction regulates the expression of the anti-apoptotic molecule Bcl-xL.

**Applications Reported:** The MIH24 antibody has been reported for use in flow cytometric analysis, and ELISA.

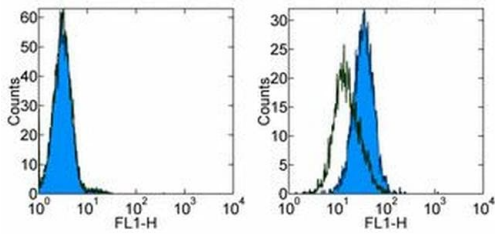
**Applications Tested:** The MIH24 antibody has been tested by flow cytometric analysis of human RANKL transfected cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Aggregation:** Less than 10%, as determined by HPLC.

**Filtration:** 0.2 µm post-manufacturing filtered.

# Product Images For CD254 (RANK Ligand) Monoclonal Antibody (MIH24), eBioscience™



## CD254 (RANK Ligand) Antibody (14-6619-82) in Flow

Staining of non-transfected (left) and human RANKL transfected cells (right) with 0.25 µg of Mouse IgG2b kappa Isotype Control Purified (Product # 14-4732-82) (open histogram) or 0.5 µg of Anti-Human CD254 (RANK Ligand) Purified (filled histogram) followed by Anti-Mouse IgG FITC (Product # 11-4011-85). Total viable cells were used for analysis.

## 1 Reference

### Flow Cytometry (1)

PLoS one

#### Soluble rank ligand produced by myeloma cells causes generalised bone loss in multiple myeloma.

"Published figure using CD254 (RANK Ligand) monoclonal antibody (Product # 14-6619-82) in Flow Cytometry"

Authors: Buckle CH, De Leenheer E, Lawson MA, Yong K, Rabin N, Perry M, Vanderkerken K, Croucher PI

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2013

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