

CD254 (RANK Ligand) Monoclonal Antibody (IK22/5), Functional Grade, eBioscience

Product Details	
Size	500 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Functional Grade, eBioscience
Class	Monoclonal
Type	Antibody
Clone	IK22/5
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_2573098

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	-
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	2 Publications

Product Specific Information

Description: The IK22/5 monoclonal antibody reacts with mouse CD254 also known as TRANCE (TNF-related activation-induced cytokine receptor) and RANKL (receptor activator of NF-kappa B 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 and is expressed abundantly by mouse T cells not B cells in mouse thymus and lymph nodes. 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: This IK22/5 antibody has been reported for use in flow cytometric analysis. The IK22/5 monoclonal antibody has also been reported to inhibit in vitro osteoclastogenesis of tartrate resistant acidic phosphatase (TRAP)+ multinucleated cells.

Applications Tested: This IK22/5 antibody has been tested by flow cytometric analysis on mouse CD254 transfected cells. This can be used at less than or equal to 0.5 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

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

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

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

2 References

Immunocytochemistry (2)

Journal of bone and mineral research : the official journal of the
American Society for Bone and Mineral Research

Selective glucocorticoid receptor modulation maintains bone mineral density in mice.

"Published figure using CD254 (RANK Ligand) monoclonal antibody (Product # 16-5952-85) in Immunofluorescence"

Authors: Thiele S,Ziegler N,Tsourdi E,De Bosscher K,Tuckermann JP,Hofbauer LC,Rauner M

Species
Not Applicable

Dilution
Not Cited

Year
2012

Journal of immunology (Baltimore, Md. : 1950)

LTbetaR signaling induces cytokine expression and up-regulates lymphangiogenic factors in lymph node anlagen.

Authors: Vondenhoff MF,Greuter M,Goverse G,Elewaut D,Dewint P,Ware CF,Hoorweg K,Kraal G,Mebius RE

Species
Not Applicable

Dilution
Not Cited

Year
2009

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