

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience
Class	Monoclonal
Type	Antibody
Clone	IK22/5
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466060

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	5 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication

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.

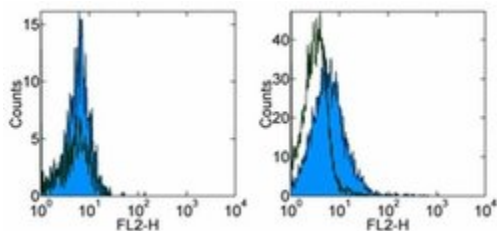
Applications Reported: The IK22/5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The IK22/5 antibody has been tested by flow cytometric analysis of mouse CD254 (TRANCE) transfected cells. This can be used at less than or equal to 0.25 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD254 (RANK Ligand) Monoclonal Antibody (IK22/5), PE, eBioscience



CD254 (RANK Ligand) Antibody (12-5952-82) in Flow

Staining of 3-day unstimulated (left) and 3-day ConA-stimulated (right) BALB/c splenocytes with 0.125 µg of Rat IgG2a K Isotype Control PE (Product # 12-4321-80) (open histogram) or 0.125 µg of Anti-Mouse CD254 PE (filled histogram). Total viable cells were used for analysis.

6 References

Flow Cytometry (5)

Nature communications

TGF-induced degradation of TRAF3 in mesenchymal progenitor cells causes age-related osteoporosis.

"Published figure using CD254 (RANK Ligand) monoclonal antibody (Product # 12-5952-82) in Flow Cytometry"

Authors: Li J, Ayoub A, Xiu Y, Yin X, Sanders JO, Mesfin A, Xing L, Yao Z, Boyce BF

Species

Not Applicable

Dilution

Not Cited

Year

2019

eLife

CCR7 defines a precursor for murine iNKT cells in thymus and periphery.

Authors: Wang H, Hogquist KA

Species

Mouse

Dilution

Not Cited

Year

2018

[View more Flow references on thermofisher.com](#)

Immunocytochemistry (1)

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, Govers G, Elewaut D, Dewint P, Ware CF, Hoorweg K, Kraal G, Mebius RE

Species

Not Applicable

Dilution

Not Cited

Year

2009

More applications with references on thermofisher.com

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