

CD265 (RANK) Monoclonal Antibody (R12-31), 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	R12-31
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466134

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	6 Publications

Product Specific Information

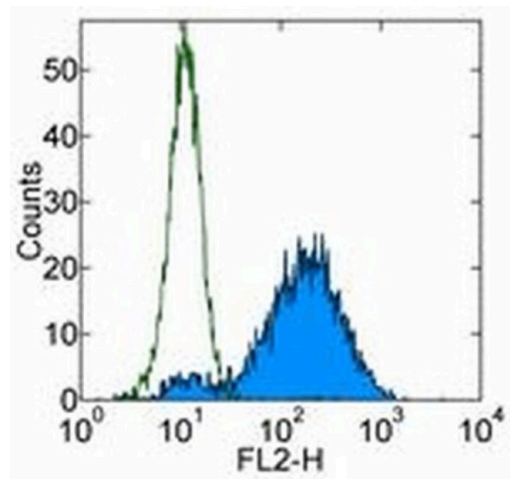
Description: The R12-31 monoclonal antibody reacts with mouse RANK (Receptor activator of NF-kappaB), a recently cloned member of the TNFR superfamily with no significant homology to other members of this family. RANK ligand (RANKL /TRANCE/ OPGL) binds to RANK on dendritic cells, upregulates the expression 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-kappaB and c-Jun-terminal kinase (JNK) pathways. Recent studies have shown that RANK interaction with TRAF6 activates NF-kappaB, whereas JNK activation is mediated through binding of RANK to TRAF2.

Applications Reported: The R12-31 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This R12-31 antibody has been tested by flow cytometric analysis of mouse RANK-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 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.



CD265 (RANK) Antibody (12-6612-82) in Flow
Staining of CD265-transfected cells with 0.5 µg of Rat IgG2a kappa Isotype Control PE (Product # 12-4321-80) (open histogram) or 0.5 µg of Anti-Mouse CD265 (RANK) PE (filled histogram). Total viable cells were used for analysis.

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Western Blot (1)

<p>International journal of molecular medicine</p> <p>Interleukin-21 promotes osteoclastogenesis in RAW264.7 cells through the PI3K/AKT signaling pathway independently of RANKL.</p> <p>"12-6612-82 was used in Western Blotting to examine the osteoclastogenic activity of interleukin-21 in RAW264.7 cells in the absence of receptor activator of nuclear factor-B ligand."</p> <p>Authors: Xing R,Zhang Y,Li C,Sun L,Yang L,Zhao J,Liu X</p>	<p>Year 2016</p> <p>Species Mouse</p>
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Flow Cytometry (6)

<p>Frontiers in cell and developmental biology</p> <p>Antenatal Corticosteroid Therapy Attenuates Angiogenesis Through Inhibiting Osteoclastogenesis in Young Mice.</p> <p>"12-6612 was used in Flow cytometry/Cell sorting to indicate Ezh2 expression of osteoclast precursors is suppressed after ACT, which reduced the pre-osteoclast number and PDGF-BB secretion, thus inhibiting type H vessel formation and ACT-associated low bone mineralization."</p> <p>Authors: Chai Y,Su J,Hong W,Zhu R,Cheng C,Wang L,Zhang X,Yu B</p>	<p>Year 2021</p> <p>Species Mouse</p>
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<p>Nature communications</p> <p>STAT3 restrains RANK- and TLR4-mediated signalling by suppressing expression of the E2 ubiquitin-conjugating enzyme Ubc13.</p> <p>"12-6612 was used in Flow cytometry/Cell sorting to investigate the mechanism by which STAT3 curbs pro-inflammatory cytokine production mediated by NF-B signalling, showing that it restrains signalling by suppressing expression of Ubc13."</p> <p>Authors: Zhang H,Hu H,Greeley N,Jin J,Matthews AJ,Ohashi E,Caetano MS,Li HS,Wu X,Mandal PK,McMurray JS,Moghaddam SJ,Sun SC,Watowich SS</p>	<p>Year 2014</p> <p>Species Mouse</p>
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