Human TRANCE/TNFSF11/RANK L Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 685857

Catalog Number: FAB6264G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TRANCE/TNFSF11/RANK L in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 685857
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TRANCE/TNFSF11/RANK L Gly136-Asp317 Accession # O14788
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10^6 cells	HEK293 human cell line transfected with human TRANCE and egfp

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** • 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

TNF-related activation-induced cytokine (TRANCE; also RANKL, OPGL, and ODF) is a 35 kDa (predicted) type II transmembrane glycoprotein and member of the TNF cytokine family. Human TRANCE is 317 amino acids (aa) in length and contains a 47 aa cytoplasmic region, a 21 aa transmembrane region, and a 249 extracellular domain (ECD), which contains two potential sites of N-linked glycosylation. Splicing variants produce three isoforms for human TRANCE. Isoform 1 is the standard form. In isoform 2, aa corresponding to 1-73 in isoform 1 are missing. In isoform 3, aa 1-47 are missing. Human TRANCE ECD is 83% identical to mouse TRANCE ECD. TRANCE is expressed highest in the peripheral lymph nodes and weaker in the spleen, peripheral blood leukocytes, bone marrow, heart, placenta, skeletal muscle, stomach, and thyroid. TRANCE plays a role in osteoclast differentiation and activation.

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bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449