

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RELT/TNFRSF19L in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) 4-1BB, recombinant mouse (rm) 4-1BB, rhBAFF R, rmBAFF R, rhCD27, rmCD27, rhCD30, rmCD30, rhCD40, rmCD40, rhDR3, rmDR3, rhDR6, rhEDAR, rmEDAR, rhFas, rmFas, rrFas, rhGITR, rmGITR, rhHVEM, rhLTβ R, rmLTβ R, rhNGF R, rmNGF R, rhOPG, rmOPG, rmOX40, rhRANK, rmRANK, rhTNF RI, rmTNF RI, rhTNF RII, rmTNF RII, rhTRAIL R1, rhTRAIL R2, rhTRAIL R3, rhTRAIL R4, rhTROY, or rmTROY is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 238104
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human RELT/TNFRSF19L Met1-Ala160 (Arg127Gly, Arg129Gly) Accession # Q969Z4
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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	Raji human Burkitt's lymphoma cell line

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

RELT (Receptor Expressed in Lymphoid Tissues) is a type I transmembrane glycoprotein belonging to the tumor necrosis factor receptor superfamily (TNFRSF) and has been designated TNFRSF19-like (TNFRSF19L) (1, 2). It is primarily expressed in hematopoietic tissues and peripheral blood leukocytes. Human RELT cDNA encodes a 430 amino acid (aa) residue precursor protein with a putative 26 aa signal peptide, a 136 aa extracellular domain containing one TNF receptor cysteine-rich domain and one potential N-linked glycosylation site, a 21 aa transmembrane domain and a 247 aa cytoplasmic region containing no death domain. Human RELT shares 85% and 96% aa sequence homology with mouse RELT (Accession # BAC40459) and macaque RELT (Accession # Q9N092), respectively. Among TNFRSF members, the RELT extracellular domain is most closely related to that of TNFRSF19 and OX40. RELT has been shown to exclusively bind the adaptor protein TNF receptor-associated factor 1 (TRAF1). However, it has also been shown to activate the NF-κB pathway independently of TRAFs. Immobilized RELT can co-stimulate T-cell proliferation in the presence of CD3 signaling, suggesting a potential regulatory role in immune response.

References:

- <http://www.gene.ucl.ac.uk/nomenclature/genefamily/tnftop.html>.
- Sica, G. *et al.* (2001) *Blood* **97**:2702.

PRODUCT SPECIFIC NOTICES

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