Human Lymphotoxin βR/TNFRSF3 APC-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 71319

Catalog Number: FAB629A

100 Tests

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Lymphotoxin βR/TNFRSF3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) 4-1BB, rhBAFF R, rhCD27, rhCD30, rhCD40, rhDR3, rhDR6, rhEDAR, rhFas, rhGITR, rhHVEM, recombinant mouse (rm) Lymphotoxin βR, rhNGF R, rhOPG, rhRELT, rhTAJ, rhTNF RI or rhTNF RII is observed.
Source	Monoclonal Mouse IgG_1 Clone # 71319
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Lymphotoxin βR/TNFRSF3 Gln31-Met227 Accession # P36941
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied 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.

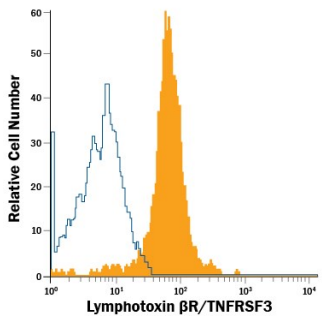
APPLICATIONS

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	10 µL/10^6 cells	See Below

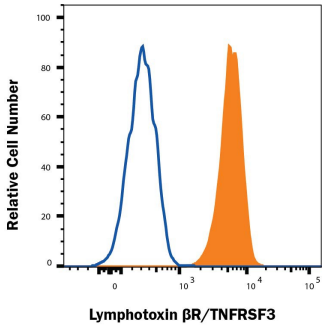
DATA

Flow Cytometry



Detection of Lymphotoxin βR/TNFRSF3 in Human PBMCs by Flow Cytometry. Human peripheral blood monocytes (PBMCs) were stained with Mouse Anti-Human Lymphotoxin ßR/TNFRSF3 APC-conjugated Monoclonal Antibody (Catalog # FAB629A, filled histogram) or isotype control antibody (Catalog # Catalog # IC002A, open histogram). View our protocol for Staining Membrane-associated Proteins.

Flow Cytometry



Detection of Lymphotoxin βR/TNFRSF3 in A549 cells by Flow Cytometry. A549 cells were stained with Mouse Anti-Human Lymphotoxin βR/TNFRSF3 APC-conjugated Monoclonal Antibody (Catalog # FAB629A, filled histogram) or isotype control antibody (Catalog # IC002A, open histogram). View our protocol for Staining Membrane-associated Proteins.

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.

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

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BACKGROUND

Lymphotoxin beta receptor (LTβR), also known as TNF RIII and TNF R-related protein (TNF Rrp) is a member of the TNF receptor superfamily, designated TNFRSF3. Human LTβR cDNA encodes a 435 amino acid (aa) residue type I membrane protein with a putative 30 aa residue signal peptide, a 193 aa residue extracellular domain and a 171 aa residue cytoplasmic domain. The extracellular domain of LTβR contains four cysteine-rich motifs characteristic of the TNF receptor superfamily. The cytoplasmic region of LTβR shares little sequence similarity with other TNF receptor family members, suggesting that different signaling mechanisms may be used. LTβR is expressed in a variety of tissues including visceral and lymphoid tissues. LTβR is also expressed by cell lines of monocytic, epithelial, and fibroblastic origins but not by T and B lymphocytes. Human and mouse LTβR share 76% aa sequence homology. The TNF family ligands that have been shown to bind and activate LTβR include LIGHT (also a ligand for HVEM) and the heterotrimeric lymphotoxin LTα1/β2 or LTα2/β1. Depending on the cell type, activation of LTβR has been shown to induce NFκB activation, chemokine production, growth arrest, and apoptosis. *In vivo,* LTβR has been shown to play a critical role in controlling cellular immune functions and lymphoid organogenesis.

References:

1. Zhai, Y. *et al.* (1998) J. Clin. Invest. **102**:1142.
2. Rennert, P.D. *et al.* (1998) Immunity **9**:71.
3. Degli-Esposti, M.A. *et al.* (1997) J. Immunol **158**:1756.
4. Mackay, F. *et al.* (1996) J. Biol. Chem. **271**:8618.
5. Crowe, P.D. *et al.* (1994) Science **264**:707.

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