

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Lymphotoxin β R/TNFRSF3 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Lymphotoxin β R/TNFRSF3 Ser28-Met227 Accession # P36941
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*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.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.
Inhibition of Cell Growth	Optimal dilution of this antibody should be experimentally determined.

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

Lymphotoxin beta receptor (LT β R), also known as TNF RIII and TNF R-related protein (TNF Rrp), was originally identified as a transcribed sequence on human chromosome 12p with homology to the TNF receptor superfamily. In the new TNF nomenclature, LT β R is referred to as TNFRSF3. Human LT β R 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 LT β R contains four cysteine-rich motif characteristic of the TNF receptor superfamily. The cytoplasmic region of LT β R share little sequence similarity with other TNF receptor family members, suggesting that different signaling mechanisms may be utilized. LT β R is expressed in a variety of tissues including visceral and lymphoid tissues. LT β R is also expressed by cell lines of monocytic, epithelial, and fibroblastic origins but not by T and B lymphocytes. The human and mouse LT β R share 76% aa sequence homology. The TNF family ligands that have been shown to bind and activate LT β R include LIGHT (also a ligand for HVEM) and the heterotrimeric lymphotoxin LT α 1/ β 2 or LT α 2/ β 1. Depending on the cell type, activation of LT β R has been shown to induce NF κ B activation, chemokine production, growth arrest, and apoptosis. *In vivo*, LT β R has been shown to play a critical role in controlling cellular immune functions and lymphoid organogenesis.

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