

Datasheet for ABIN1169120

**anti-LTBR antibody (Cysteine-Rich Domain)**[Go to Product page](#)**3** Publications

## Overview

Quantity:	100 µg
Target:	LTBR
Binding Specificity:	AA 31-221, Cysteine-Rich Domain
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This LTBR antibody is un-conjugated
Application:	Flow Cytometry (FACS), Functional Studies (Func)

## Product Details

Immunogen:	Recombinant mouse LTbetaR (cysteine-rich region) (aa 31-221).
Clone:	4H8 WH2
Isotype:	IgG2a
Specificity:	Recognizes mouse LTbetaR.
Cross-Reactivity:	Mouse (Murine)
Purification:	Purified from concentrated hybridoma tissue culture supernatant.
Purity:	>95 % (SDS-PAGE)

## Target Details

Target:	LTBR
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## Target Details

Alternative Name:	LTbetaR ( <a href="#">LTBR Products</a> )
Background:	The LTbetaR activates two different NF-kappaB pathways that lead to distinct patterns of gene induction, including selected chemokines and the cytokine BAFF, which is essential for the survival of mature B lymphocytes. LTbetaR activates the classical NF-kappaB (relA/p50) pathway, like the type 1 TNF receptor (TNFR1), that regulates proinflammatory genes, like the chemokine MIP1beta. However, LTbetaR, unlike TNFR1, also activates the processing of p100 to form RelB/p52 complexes, which activate genes involved in lymphoid organ formation and lymphocyte survival.
UniProt:	<a href="#">P50284</a>
Pathways:	<a href="#">NF-kappaB Signaling</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	The monoclonal antibody to mouse LTbetaR is an agonist that can be used for the investigation of the regulation of BAFF (BlyS), chemokines and integrins using in vivo and tissue culture models, the development of NK cells and NK T cells, to study the regulation of NF-kappaB family of transcription factors in regulation of inflammation and homeostasis, particularly RelB NF-kappaB2 pathway. For use as an agonist the MAb to LTbetaR is added to cell cultures at 2µg/ml. For in vivo use, mice are injected intraperitoneally with 50µg of agonistic MAb to LTbetaR in sterile phosphate saline buffer.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	In PBS containing 10 % glycerol and 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C

## Handling

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Long Term Storage: -20°C

Stable for at least 1 year after receipt when stored at -20°C.

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Expiry Date: 12 months

## Publications

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Product cited in: Vondenhoff, Greuter, Goverse, Elewaut, Dewint, Ware, Hoorweg, Kraal, Mebius: "LTbetaR signaling induces cytokine expression and up-regulates lymphangiogenic factors in lymph node anlagen." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 182, Issue 9, pp. 5439-45, (2009) ([PubMed](#)).

Silva-Santos, Pennington, Hayday: "Lymphotoxin-mediated regulation of gammadelta cell differentiation by alphabeta T cell progenitors." in: **Science (New York, N.Y.)**, Vol. 307, Issue 5711, pp. 925-8, (2005) ([PubMed](#)).

Dejardin, Droin, Delhase, Haas, Cao, Makris, Li, Karin, Ware, Green: "The lymphotoxin-beta receptor induces different patterns of gene expression via two NF-kappaB pathways." in: **Immunity**, Vol. 17, Issue 4, pp. 525-35, (2002) ([PubMed](#)).