abcam

ab171241

Anti-LTBR antibody [3C8] - Low endotoxin, Azide free

Key facts

Isotype	IgG1
Host species	Rat
Storage buffer	pH: 7.2 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Carrier free	Yes
Clone number	3C8
Purification technique	Affinity purification Protein G
Light chain type	kappa
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	-
Notes	ab171241 can be used at less than or equal to 0.5µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL.

Cell number should be determined empirically but can range from 10e5 to 10e8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.
ab18407 - Rat monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target data

See full target information Ltbr

Function Receptor for the heterotrimeric lymphotoxin containing LTA and LTB, and for TNFS14/LIGHT. Activates NF-kappa-B signaling upon stimulation with lymphotoxin. Promotes apoptosis via TRAF3 and TRAF5. May play a role in the development of lymphoid organs. (Microbial infection) Plays a role in host defense against Zika virus infection.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by the LAL assay.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary LTBR (lymphotoxin beta receptor) also known as the TNFRSF3 is a significant protein that functions as a receptor for lymphotoxin and other related cytokines. The protein has a mass of around 62 kDa and is expressed in various tissues including lymphoid tissues and the epithelial cells of several organs. LTBR is

	present as a membrane-bound protein and helps mediate signaling that is important for cellular communication and function. Key interactions with ligands such as LTA and LIGHT activate signaling pathways which play roles in immune response.
Biological function summary	LTBR coordinates multiple cellular processes especially in immune regulation and homeostasis. It forms a complex with cytokines that binds to its extracellular domain triggering downstream signaling cascades. These cascades lead to activation of nuclear factor kappa B (NF-kB) which controls gene transcription and promotes survival and differentiation of immune cells. The capability of LTBR to interact with other TNF receptors expands its influence in lymphoid organogenesis and maintenance especially in maintaining the integrity of the lymphoid system.
Pathways	LTBR significantly participates in both the NF-kB and the non-canonical NF-kB pathways. These pathways are essential for regulating immune response and inflammation. Within these pathways LTBR interacts with other proteins such as TRAF3 and TRAF2 to mediate signaling processes. This arrangement allows for modulation of immune responses and is critical for recognizing and eliminating pathogens. Additionally the involvement of LTBR in immune system pathways aligns it with the functions of closely related proteins like TNF receptor superfamily members.
Associated diseases and disorders	LTBR has been implicated in autoimmune diseases and cancer. In autoimmunity aberrant signaling through LTBR may lead to inappropriate immune responses and inflammation as seen in disorders like systemic lupus erythematosus. Moreover in oncology abnormalities in LTBR signaling can influence tumor microenvironments and support tumor cell survival. Throughout these disease contexts LTBR often interacts with other risk-associated proteins such as NFKB1 highlighting its integration in complex pathological processes.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

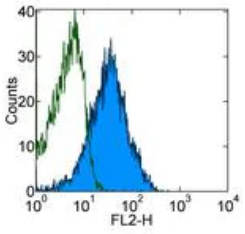
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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1 product image



Flow Cytometry - Anti-LTBR antibody [3C8] - Low endotoxin, Azide free (ab171241)

LTBR Flow Cytometry staining using rat Anti-LTBR antibody

Flow cytometry analysis of total viable NIH/3T3 cells (10e5 to 10e8) labeling LTBR with ab171241 (filled histogram) at 0.25µg or Rat IgG1 control (open histogram). Followed by anti-Rat IgG Biotin and Streptavidin PE.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.