abcam

ab155363

APC Anti-LIGHT/TNFSF14 antibody [7-3 (7)]

Anti-LIGHT/TNFSF14 antibody [7-3 (7)] conjugated to APC - suitable for flow cytometry, and reacts with human samples. Clone [7-3 (7)] is a mouse monoclonal antibody.

Design your panel with our interactive flow cytometry panel builder. Click here.

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	APC
Excitation/Emission	Ex: 650nm, Em: 660nm
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Native Full Length Protein corresponding to Human TNFSF14. Database link O43557
Clone number	7-3 (7)
Purification technique	Affinity purification Protein G
Light chain type	kappa

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	5 µL for 10^6 Cells
Notes	-

Target data

See full target information TNFSF14

Function	Cytokine that binds to TNFRSF3/LTBR. Binding to the decoy receptor TNFRSF6B modulates its effects. Acts as a ligand for TNFRSF14/HVEM (PubMed:10754304, PubMed:9462508). Upon binding to TNFRSF14/HVEM, delivers costimulatory signals to T cells, leading to T cell proliferation and IFNG production (PubMed:10754304).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Supplementary info

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

Activity summary	LIGHT also known as TNFSF14 is a member of the tumor necrosis factor (TNF) superfamily. It has an approximate mass of 24 kDa. You can find LIGHT expressed in various tissues including lymphoid tissues such as the spleen and lymph nodes. LIGHT serves as a ligand that can bind to receptors like lymphotoxin beta receptor (LTβR) and herpesvirus entry mediator (HVEM). Researchers have studied "mouse LIGHT" and "LIGHT protein" to understand its role in immune regulation. Additionally the term "anti-LIGHT" often refers to tools like antibodies used to investigate or inhibit LIGHT's activity.
Biological function summary	LIGHT plays a role in regulating immune responses and inflammation. It is part of a complex formed when it binds to its receptors influencing the proliferation and survival of immune cells such as T cells. LIGHT's interaction with HVEM can modulate T cell signaling cytokine production and dendritic cell maturation. It contributes to the organization of secondary lymphoid organs impacting immune surveillance and homeostasis. The presence of "APC LIGHT" indicates its involvement in antigen-presenting cell activities essential for adaptive immunity.
Pathways	LIGHT operates within the TNF receptor superfamily signaling pathway. This pathway involves other TNF members like TNF-α and lymphotoxin alfa which can also interact with LTβR. Another relevant pathway is the NF-kB signaling cascade

	which LIGHT activation can trigger. This cascade regulates gene expression related to immune response and cell survival. In connection to these pathways LIGHT's interaction with proteins like HVEM and LTβR helps maintain immune system balance.
Associated diseases and disorders	LIGHT has links to autoimmune diseases and cancer. Abnormal LIGHT signaling can contribute to conditions like rheumatoid arthritis where immune cell regulation becomes dysregulated. In cancer LIGHT may play a dual role by promoting tumor immunity or conversely tumor progression depending on the context of its expression and receptor interaction. The LIGHT interaction network includes TNFRSF members and can influence pathological inflammatory responses when disrupted.

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

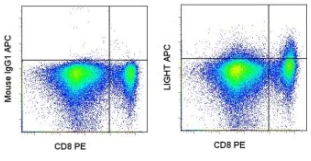
We do not recommend this combination. It is not covered by our product promise.

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1 product image



Flow Cytometry - APC Anti-LIGHT/TNFSF14 antibody [7-3 (7)] (ab155363)

LIGHT/TNFSF14 Flow Cytometry staining using mouse Anti-LIGHT/TNFSF14 antibody

Flow cytometric analysis of normal Human peripheral blood cells with Anti-Human CD8a PE and mouse IgG1 kappa Isotype Control APC (left) or 5 µl (0.25 µg) of ab155363 (right). Total viable cells were used for analysis.

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