abcam

ab25568

PE Anti-TRAP/CD40L antibody [MR1]

Anti-TRAP/CD40L antibody [MR1] conjugated to PE - suitable for flow cytometry, and reacts with mouse samples. Clone [MR1] is a Golden Hamster monoclonal antibody cited in 52 publications.

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Key facts

Isotype	IgG
Host species	Syrian hamster
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: 0.87% Sodium chloride, 0.14% Sodium dihydrogen phosphate, 0.1% Gelatin
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing Cd40lg protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	MR1
Purification technique	Affinity purification
Light chain type	kappa
Concentration	0.2 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information Cd40lg

Storage

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

Notes

ab25568 binds to murine CD40L with high affinity, blocks binding to CD40, and blocks CD40L function. Administration of this antibody to mice blocks the ability to mount primary and secondary immune responses to TD antigens, yet does not alter the immune response to TI antigens.

Supplementary info

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

Activity summary	TRAP/CD40L also known as CD154 or CD40 ligand is a type II transmembrane protein with a molecular mass of approximately 39 kDa. CD40L is mainly expressed on the surface of activated T cells. This protein binds to CD40 a significant receptor present on several immune cells including B cells macrophages and dendritic cells. The interaction with CD40 is essential for immune cell activation and development marking CD40L as an important player in adaptive immunity.
Biological function summary	The interaction between CD40L and CD40 triggers cell proliferation differentiation and apoptosis in immune cells. CD40L contributes to the formation of an immunological synapse encompassing its role in T helper cell function. Furthermore CD40L is implicated in the activation of B cells which are necessary

	for antibody class switching and memory cell generation. Its broad influence shows CD40L's involvement in immune system regulation and response.
Pathways	CD40L is integral to the CD40 signaling pathway which is involved in immune and inflammatory responses. CD40L activates the NF-kB and JNK signaling pathways by engaging with CD40 which then drives the transcription of genes related to immune response. This signaling cascade impacts several other proteins such as TRAF proteins which act as intermediaries in propagating the signal.
Associated diseases and disorders	CD40L has been linked to immune-related conditions including autoimmune disorders and inflammatory diseases. Elevated CD40L expression is observed in diseases such as systemic lupus erythematosus (SLE) and rheumatoid arthritis. In SLE CD40L interaction with CD40 on B cells is known to exacerbate disease severity by promoting autoantibody production. Exploring anti-CD40L therapeutic strategies can offer potential intervention in such diseases.

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

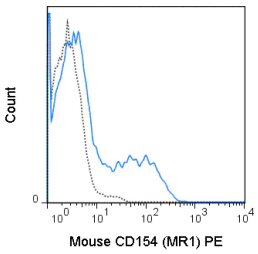
We do not recommend this combination. It is not covered by our product promise.

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.

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1 product image



Flow Cytometry - PE Anti-TRAP/CD40L antibody [MR1] (ab25568)

TRAP/CD40L Flow Cytometry staining using syrian hamster Anti-TRAP/CD40L antibody

Flow cytometry of C57Bl/6 T cells labeling TRAP/CD40L with ab25568 at 0.06µg (solid line), or Armenian Hamster IgG isotype control at 0.06µg (dashed line).

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