abcam

ab243893

Anti-TRAP220/MED1 antibody [BLR037F]

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.8 - 8.6 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline, 0.1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Synthetic Peptide within Human MED1 aa 1550 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link Q15648
Clone number	BLR037F
Purification notes	Recombinant antibody was purified from cell culture supernatant.

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	1/100 - 1/500
Notes	-

Species	Human
Dilution info	1/100 - 1/500

Notes	-

ICC

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	Use 20µl/mg lysate.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1 µL for 10^6 Cells
Notes	-

Species	Mouse
Dilution info	1 µL for 10^6 Cells
Notes	-

Target data

See full target information MED1

Function

Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors (PubMed:10406464, PubMed:11867769, PubMed:12037571, PubMed:12218053, PubMed:12556447, PubMed:14636573, PubMed:15340084, PubMed:15471764, PubMed:15989967, PubMed:16574658, PubMed:9653119). Acts as a coactivator for GATA1-mediated transcriptional activation during erythroid differentiation of K562 erythroleukemia cells (PubMed:24245781).

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	+4°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

REACH authorisation
Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.
It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

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Supplementary info

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

Activity summary	TRAP220 also known as MED1 is a protein with a molecular mass of approximately 220 kDa. It plays an important role as a component of the mediator complex which is important for transcription regulation. The expression of TRAP220/MED1 is found in various tissues with higher levels observed in liver lung and heart tissues. This protein acts mechanistically as a bridge between gene-specific transcription factors and RNA polymerase II facilitating the assembly of the pre-initiation complex.
Biological function summary	TRAP220/MED1 functions within the larger mediator complex a multi-protein coactivator essential for gene transcription by RNA polymerase II. It plays an important role in nuclear receptor signaling facilitating the transcriptional activation by various nuclear hormone receptors. MED1 interacts directly with these receptors through its various domains allowing the transcription of target genes responsive to hormonal signals.
Pathways	TRAP220/MED1 contributes significantly to transcriptional activation pathways involving nuclear receptors such as the PPAR (Peroxisome Proliferator-Activated Receptor) and thyroid hormone receptor pathways. It closely interacts with other proteins in these pathways including MED12 and MED14 which form integral parts of the mediator complex's function. Its involvement in these pathways highlights its critical role in lipid metabolism and energy homeostasis.
Associated diseases and disorders	TRAP220/MED1 is associated with metabolic and proliferative diseases. Its altered expression or mutations can lead to conditions such as obesity and cancer. For instance aberrant MED1 activity or expression levels have connections to breast cancer development through its role in estrogen receptor-mediated gene expression. This correlation emphasizes the protein's potential impact in various

pathophysiological contexts driving ongoing research into MED1 as a therapeutic target.

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

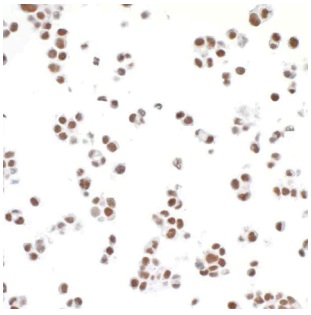
We do not recommend this combination. It is not covered by our product promise.

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.

Full details and terms and conditions can be found here:
Terms & Conditions.

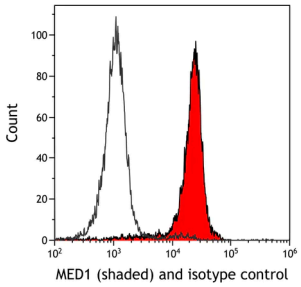
9 product images



Immunocytochemistry - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893)

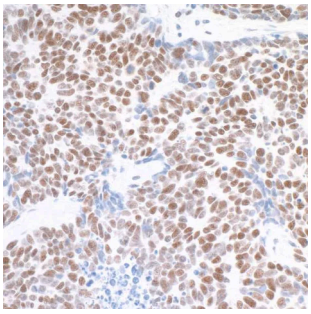
TRAP220/MED1 Immunocytochemistry staining using rabbit Anti-TRAP220/MED1 antibody

Formalin-fixed, paraffin-embedded HCT 116 (human colorectal carcinoma cell line) cells labeling TRAF220/MED1 using ab243893 at 1/100 dilution in ICC analysis. A HRP-conjugated goat-anti rabbit IgG was used as the secondary. DAB staining.



Flow Cytometry - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893)

Flow cytometry overlay histogram of 4% formaldehyde fixed HeLa cells permeabilized with 90% methanol labeling human MED1 with ab243893 at 1 µl per 1 x 10^6 cells. (shaded) compared with a Isotype control (unshaded). Secondary antibody details: Goat Anti-Rabbit IgG H&L (DyLight® 650) (ab96886).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893)

TRAP220/MED1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TRAP220/MED1 antibody

Formalin-fixed, paraffin-embedded human small cell lung cancer tissue stained for TRAP220/MED1using ab243893 at 1/500 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit antibody was used as the secondary. DAB staining.



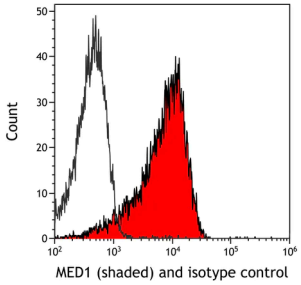
Immunoprecipitation - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893)

TRAP220/MED1 was immunoprecipitated from 1.0 mg HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab243893 at 20 µl per reaction Western blot was performed on the immunoprecipitate using ab243893 at 1/1000 dilution. Lane 1: ab243893 IP in HeLa whole cell lysate.
Lane 2: Control IgG in HeLa whole cell lysate.

Detection: Chemiluminescence with an exposure time of 30 seconds.

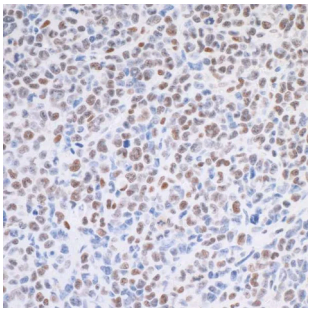
All lanes:
Immunoprecipitation - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893)

Predicted band size: 168 kDa



Flow Cytometry - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893)

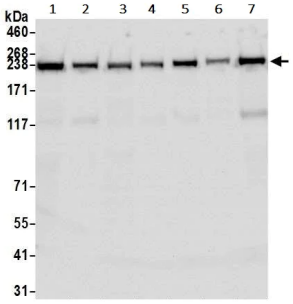
Flow cytometry overlay histogram of 4% formaldehyde fixed mIMCD-3 cells permeabilized with 90% methanol labeling human MED1 with ab243893 at 1 µl per 1 x 10^6 cells (shaded) compared with a Isotype control (unshaded). Secondary antibody details: Goat Anti-Rabbit IgG H&L (DyLight® 650) (ab96886).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893)

TRAP220/MED1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TRAP220/MED1 antibody

Formalin-fixed, paraffin-embedded mouse renal cell carcinoma tissue stained for TRAP220/MED1 using ab243893 at 1/500 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit antibody was used as the secondary. DAB staining.



Western blot - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893)

TRAP220/MED1 Western blot staining using rabbit Anti-TRAP220/MED1 antibody

Western blot analysis using ab243893 at 1/1000 dilution.
Lane 1: HEK-293T whole cell lysate (50 µg).

Lane 2: MCF7 whole cell lysate (50 µg).

Lane 3: HepG2 whole cell lysate (50 µg).

Lane 4: A549 whole cell lysate (50 µg).

Lane 5: SW 260 whole cell lysate (50 µg).

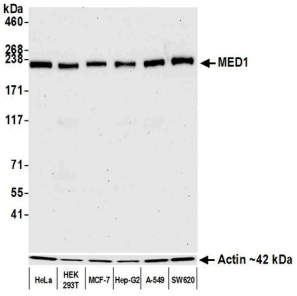
Lane 6: SK whole cell lysate (50 µg).

Lane 7: Jurkat whole cell lysate (50 µg).

A HRP-conjugated goat anti-rabbit IgG antibody was used as the secondary. Detection: chemiluminescence with an exposure time of 3 seconds.

All lanes:
Western blot - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893)

Predicted band size: 168 kDa



Western blot - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893)

TRAP220/MED1 Western blot staining using rabbit Anti-TRAP220/MED1 antibody

All lanes:
Western blot - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893) at 1/1000 dilution

Lane 1:
HeLa whole cell lysate at 10 µg

Lane 2:
HEK293T whole cell lysate at 10 µg

Lane 3:
MCF-7 whole cell lysate at 10 µg

Lane 4:
Hep-G2 whole cell lysate at 10 µg

Lane 5:
A-549 whole cell lysate at 10 µg

Lane 6:
SW620 whole cell lysate at 10 µg

Secondary

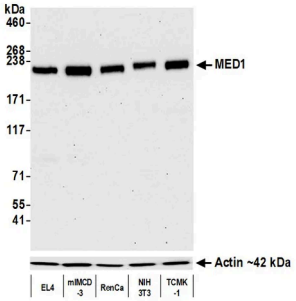
All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051)

Developed using the ECL technique.

Predicted band size: 168 kDa

Observed band size: 220 kDa

Exposure time: 30s



Western blot - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893)

TRAP220/MED1 Western blot staining using rabbit Anti-TRAP220/MED1 antibody

All lanes:
Western blot - Anti-TRAP220/MED1 antibody [BLR037F] (ab243893) at 1/1000 dilution

Lane 1:
EL4 whole cell lysate at 10 µg

Lane 2:
mIMCD-3 whole cell lysate at 10 µg

Lane 3:
RenCa whole cell lysate at 10 µg

Lane 4:
NIH 3T3 whole cell lysate at 10 µg

Lane 5:
TCMK-1 whole cell lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051)

Developed using the ECL technique.

Predicted band size: 167 kDa

Observed band size: 220 kDa

Exposure time: 30s

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