abcam

ab40756

Anti-MEKK3 antibody [ep600y]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	ep600y
Purification technique	Affinity purification Protein A
Concentration	0.14 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Expected

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

IP

Tested

Species	Mouse
Dilution info	1/20 - 1/30
Notes	-

Expected

Species	Human
Dilution info	1/20 - 1/30
Notes	-

WB

Not recommended

Species	Human, Mouse
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/100 - 1/1000
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

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

Target data

See full target information MAP3K3

Function	Component of a protein kinase signal transduction cascade. Mediates activation of the NF-kappa-B, AP1 and DDIT3 transcriptional regulators.

Storage

Shipped at conditions	Conditional Ambient
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

Species reactivity
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

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

Activity summary	MEKK3 also known as MAP3K3 is a serine/threonine kinase that plays an important role in the MAPK signaling cascade. This protein has a molecular mass of approximately 67 kDa. MEKK3 is widely expressed with notable presence in tissues like the heart placenta and skeletal muscles. It is important for transmitting signals from the cell surface to various intracellular targets impacting numerous cellular processes.
Biological function summary	MEKK3 participates in cell growth differentiation and apoptosis regulation. It often functions within a multi-protein complex including components like MEK5 and ERK5. MEKK3 activates downstream kinases influencing gene expression and cellular responses to external signals. Its involvement is essential for controlling reactions to stress and inflammatory stimuli.
Pathways	MEKK3 integrates into the MAPK and NF-κB pathways both critical for mediating signaling responses. In the MAPK pathway MEKK3 regulates kinases like MEK5 and ERK5. Additionally it connects with proteins such as IKK in the NF-κB pathway influencing immunity and cell survival. These interactions position MEKK3 centrally in cellular defense and adaptability mechanisms.
Associated diseases and disorders	MEKK3 associates with pathological conditions like cardiovascular diseases and cancer. Its role in these disorders links closely with dysregulation in the MAPK pathway where MEK5 and ERK5 also play significant roles. Furthermore aberrations in the NF-κB pathway involving IKK can contribute to its involvement in these diseases highlighting MEKK3's impact on disease progression and potential 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.

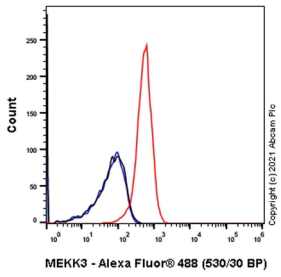
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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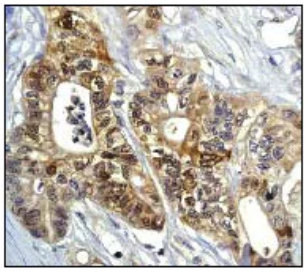
5 product images



Flow Cytometry (Intracellular) - Anti-MEKK3 antibody [ep600y] (ab40756)

MEKK3 Flow Cytometry (Intracellular) staining using rabbit Anti-MEKK3 antibody

Flow Cytometry analysis of Raji (Human Burkitt's lymphoma B lymphocyte) cells labeling MEKK3 with purified ab40756 at 1/100 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

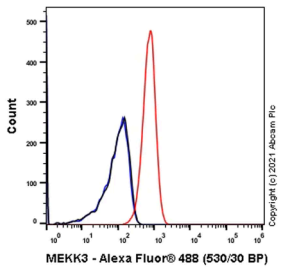


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEKK3 antibody [ep600y] (ab40756)

MEKK3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MEKK3 antibody

Immunohistochemical analysis of paraffin-embedded human ovary carcinoma using ab40756 diluted 1:100

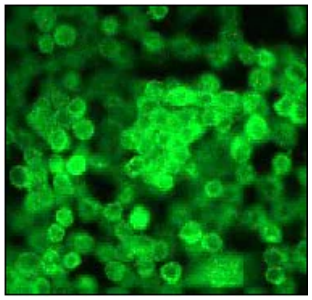
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-MEKK3 antibody [ep600y] (ab40756)

MEKK3 Flow Cytometry (Intracellular) staining using rabbit Anti-MEKK3 antibody

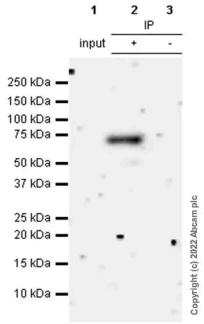
Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling MEKK3 with purified ab40756 at 1/1000 dilution (1 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-MEKK3 antibody [ep600y] (ab40756)

MEKK3 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-MEKK3 antibody

Immunofluorescent staining of HeLa cells using ab40756 diluted 1:100



Immunoprecipitation - Anti-MEKK3 antibody [ep600y] (ab40756)

71 kDa MEKK3 was immunoprecipitated from 0.35mg of bEnd.3 (mouse brain endothelial cell) whole cell lysate with ab40756 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab40756 at 1/200 dilution. VeriBlot for IP secondary antibody (HRP) (ab131366) was used at 1/5000 dilution. Lane 1 (Input): bEnd.3 (mouse brain endothelial cell) whole cell lysate 10 µg. Lane 2 (+): bEnd.3 whole cell lysate. Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab40756 in bEnd.3 whole cell lysate Blocking buffer and concentration: 5% NFDM/TBST. Diluting buffer and concentration: 5% NFDM/TBST. Exposure time: 180 seconds.
All lanes:
Immunoprecipitation - Anti-MEKK3 antibody [ep600y] (ab40756) at 1/200 dilution

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Predicted band size: 71 kDa

Observed band size: 71 kDa

Exposure time: 180s

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