abcam

ab250909

Anti-MED7 antibody [EPR15410] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR15410
Concentration	1.016 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Rat, Mouse, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

IHC-P

Tested

Species	Human, Mouse
Dilution info	-
Notes	-

Expected

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

Target data

See full target information MED7

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.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab250909 is the carrier-free version of ab187146.

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.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

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

Activity summary	MED7 also known as Mediator Complex Subunit 7 is a protein component of core Mediator complex essential for transcription regulation by RNA polymerase II. MED7 weighs approximately 25 kDa and exists in nucleus. It is part of a large

	multi-protein assembly. This subunit participates specifically by aiding in the mediator's interactions with gene-specific regulatory proteins and general transcription factors essential for transcription initiation.
Biological function summary	These components coordinate as part of Mediator complex which regulates transcription by acting as bridge between DNA-bound transcriptional regulators and RNA polymerase II. MED7 contributes to the structural integrity of Mediator complex affecting transcriptional activation processes necessary for gene expression. The protein's roles link it directly to cell growth differentiation and response to various stimuli indicating its importance in diverse cellular processes.
Pathways	MED7 integrates itself into transcription regulation pathways especially interacting with other subunits like MED1 and MED14. The Mediator complex functions in the pathway responsible for transferring information from transcription factors to RNA polymerase II. This involves interacting with multiple pathways including Notch signaling and Wnt signaling serving as coordinator between transcriptional regulators and transcription machinery.
Associated diseases and disorders	MED7 has associations with cancer and neurodevelopmental disorders. Aberrations in Mediator complex components including MED7 can impact transcriptional dysregulation linked to oncogenesis. Mutations in this subunit along with changes in associated proteins such as MED12 are observed in various cancer types. Additionally disturbances in Mediator complex function potentially involving MED7 contribute to neurodevelopmental conditions due to misregulation of gene expression essential for neural development.

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

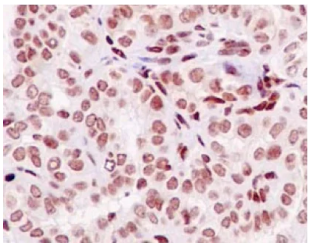
We do not recommend this combination. It is not covered by our product promise.

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.

5 product images

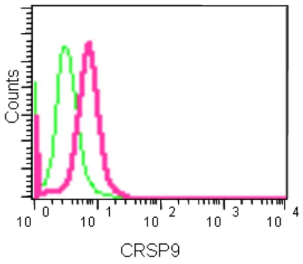


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MED7 antibody [EPR15410] - BSA and Azide free (ab250909)

MED7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MED7 antibody

This data was developed using ab187146, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin embedded Human thyroid carcinoma tissue labeling MED7 with ab187146 at 1/100 with prediluted (Ready to use) HRP Polymer for Rabbit IgG as secondary antibody.

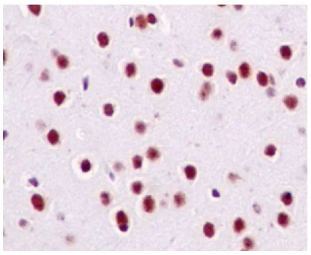
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-MED7 antibody [EPR15410] - BSA and Azide free (ab250909)

MED7 Flow Cytometry (Intracellular) staining using rabbit Anti-MED7 antibody

This data was developed using ab187146, the same antibody clone in a different buffer formulation.
Intracellular flow cytometrical analysis of HeLa cells labeling MED7 with ab187146 at 1/60 compared to a Isotype control. FITC-conjugated goat-anti-rabbit secondary antibody at 1/150 were used for the analysis.

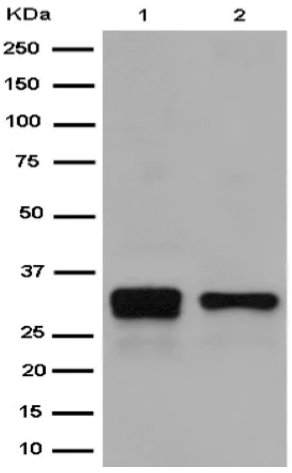


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MED7 antibody [EPR15410] - BSA and Azide free (ab250909)

MED7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MED7 antibody

This data was developed using ab187146, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin embedded Mouse brain tissue labeling MED7 with ab187146 at 1/100 with prediluted (Ready to use) HRP Polymer for Rabbit IgG as secondary antibody.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Western blot - Anti-MED7 antibody [EPR15410] - BSA and Azide free (ab250909)

MED7 Western blot staining using rabbit Anti-MED7 antibody

This data was developed using ab187146, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-MED7 antibody [EPR15410] (ab187146) at 1/1000 dilution

Lane 1:
Jurkat cell lysate at 20 µg

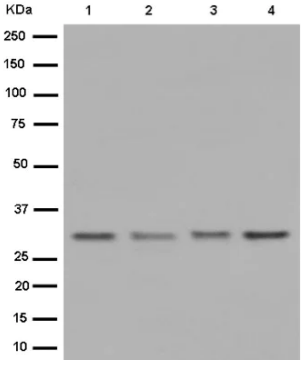
Lane 2:
293T cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 27 kDa

Observed band size: 34 kDa



Western blot - Anti-MED7 antibody [EPR15410] - BSA and Azide free (ab250909)

This data was developed using ab187146, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-MED7 antibody [EPR15410] (ab187146) at 1/1000 dilution

Lane 1:
C6 cell lysate at 10 µg

Lane 2:
RAW 264.7 cell lysate at 10 µg

Lane 3:
PC12 cell lysate at 10 µg

Lane 4:
NIH3T3 cell lysate at 10 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 27 kDa

Observed band size: 34 kDa

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