abcam

ab249629

Anti-MTA2/PID antibody [EPR8537(2)] - 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	EPR8537(2)
Purification technique	Affinity purification
Concentration	1.066 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	Antigen retrieval is recommended.

Not recommended

Species	Mouse
Dilution info	-
Notes	Antigen retrieval is recommended.

Species	Rat
Dilution info	-
Notes	Antigen retrieval is recommended.

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information MTA2

Function	May function as a transcriptional coregulator (PubMed:16428440, PubMed:28977666). Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed:16428440, PubMed:28977666).

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

ab249629 is the carrier-free version of ab171073.

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	MTA2 also known as metastasis-associated protein 2 is a component of the nucleosome remodeling and deacetylase (NuRD) complex weighing approximately 77 kDa. MTA2 is widely expressed throughout the human body including in vital organs and tissues such as the liver brain and lung. It plays a significant role in regulating gene expression by modifying chromatin structure. This protein often localizes in the nucleus where it can regulate various cellular processes.

Biological function summary	MTA2 influences the suppression and activation of gene transcription. It acts as an integral part of the NuRD complex which combines chromatin remodeling and histone deacetylase activities. Through this role MTA2 helps control cellular differentiation proliferation and development. By modulating epigenetic states MTA2 can impact cellular responses to external stimuli helping cells adapt to changes in their environment.
Pathways	MTA2 engages in cellular signaling pathways including the Notch signaling and Wnt signaling pathways. These pathways are important for regulating cell fate decisions. MTA2 interacts with other proteins such as HDAC1 and HDAC2 to exert its influence on transcriptional repression and gene silencing. The NuRD complex of which MTA2 is part serves as a critical mediator in these pathways highlighting its importance in cellular homeostasis.
Associated diseases and disorders	MTA2 participation links it to cancer progression and metastasis. It shows overexpression in several cancers including breast and liver cancer where it correlates with more aggressive tumor behavior and poor prognosis. Interestingly MTA2 also associates with prostate cancer through its interaction with the androgen receptor influencing cancer cell survival and proliferation. Identifying MTA2's connections with these conditions has pointed to potential therapeutic targets within these molecular pathways.

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

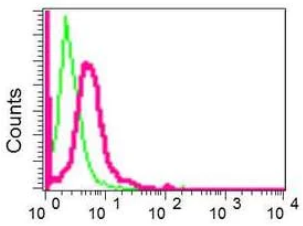
We do not recommend this combination. It is not covered by our product promise.

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.

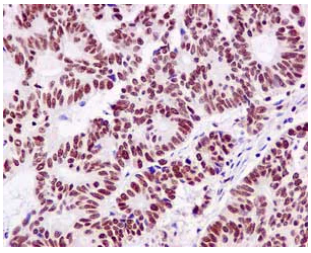
5 product images



Flow Cytometry (Intracellular) - Anti-MTA2/PID antibody [EPR8537(2)] - BSA and Azide free (ab249629)

MTA2/PID Flow Cytometry (Intracellular) staining using rabbit Anti-MTA2/PID antibody

This data was developed using ab171073, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized Hela cells labeling MTA2/PID with ab171073 at 1/100 dilution (red) or a rabbit IgG negative (green).

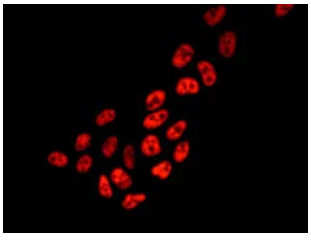


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MTA2/PID antibody [EPR8537(2)] - BSA and Azide free (ab249629)

MTA2/PID Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MTA2/PID antibody

This data was developed using ab171073, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human colonic carcinoma tissue labeling MTA2/PID with ab171073 at 1/50 dilution.

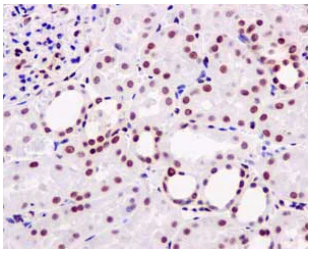
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-MTA2/PID antibody [EPR8537(2)] - BSA and Azide free (ab249629)

MTA2/PID Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-MTA2/PID antibody

This data was developed using ab171073, the same antibody clone in a different buffer formulation.
Immunofluorescent staining of HeLa cells labeling MTA2/PID with ab171073 at 1/250 dilution.

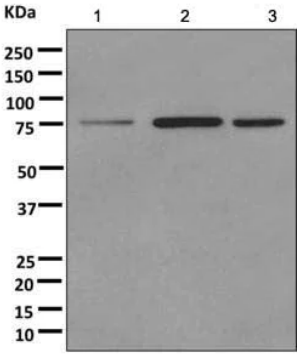


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MTA2/PID antibody [EPR8537(2)] - BSA and Azide free (ab249629)

MTA2/PID Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MTA2/PID antibody

This data was developed using ab171073, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling MTA2/PID with ab171073 at 1/50 dilution.

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



Western blot - Anti-MTA2/PID antibody [EPR8537(2)] - BSA and Azide free (ab249629)

This data was developed using ab171073, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-MTA2/PID antibody [EPR8537(2)] (ab171073) at 1/1000 dilution

Lane 1:
MCF7 cell lysate at 10 µg

Lane 2:
HeLa cell lysate at 10 µg

Lane 3:
SW480 cell lysate at 10 µg

Predicted band size: 75 kDa

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