

# [KO Validated] MTA2 Rabbit mAb

Catalog No.: A4624 **KO Validated** **Recombinant**

## Basic Information

### Observed MW

75kDa

### Calculated MW

75kDa

### Category

Primary antibody

### Applications

WB, IHC-P, IF/ICC, ELISA, ChIP

### Cross-Reactivity

Human

### CloneNo number

ARC1056

## Recommended Dilutions

**WB** 1:500 - 1:1000

**IHC-P** 1:50 - 1:200

**IF/ICC** 1:50 - 1:200

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

**ChIP** 5µg antibody for 10µg-15µg of Chromatin

## Contact

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## Background

This gene encodes a protein that has been identified as a component of NuRD, a nucleosome remodeling deacetylase complex identified in the nucleus of human cells. It shows a very broad expression pattern and is strongly expressed in many tissues. It may represent one member of a small gene family that encode different but related proteins involved either directly or indirectly in transcriptional regulation. Their indirect effects on transcriptional regulation may include chromatin remodeling. It is closely related to another member of this family, a protein that has been correlated with the metastatic potential of certain carcinomas. These two proteins are so closely related that they share the same types of domains. These domains include two DNA binding domains, a dimerization domain, and a domain commonly found in proteins that methylate DNA. One of the proteins known to be a target protein for this gene product is p53. Deacetylation of p53 is correlated with a loss of growth inhibition in transformed cells supporting a connection between these gene family members and metastasis.

## Immunogen Information

### Gene ID

9219

### Swiss Prot

O94776

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 569-668 of human MTA2 (O94776).

### Synonyms

PID; MTA1L1; A2

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

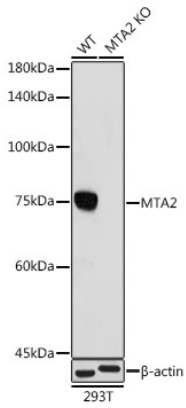
Affinity purification

### Storage

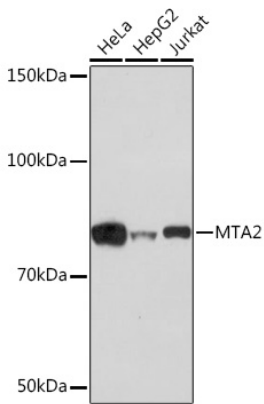
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

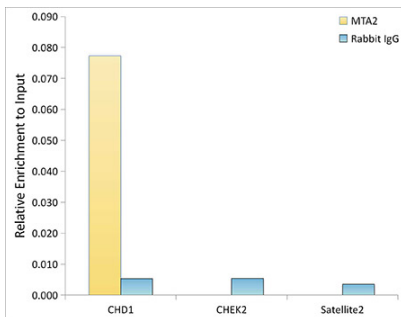
## Validation Data



Western blot analysis of lysates from wild type (WT) and MTA2 knockout (KO) 293T cells, using [KO Validated] MTA2 Rabbit mAb (A4624) at 1:1000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 180s.



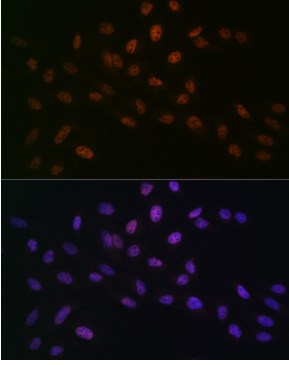
Western blot analysis of various lysates using MTA2 Rabbit mAb (A4624) at 1:1000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 3min.



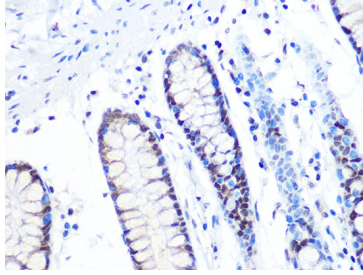
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using MTA2 antibody (A4624) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

## Validation Data

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Immunofluorescence analysis of U-2 OS cells using [KO Validated] MTA2 Rabbit mAb (A4624) at dilution of 1 : 100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Human colon using MTA2 Rabbit mAb (A4624) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.