

# PID/MTA2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6663b

## Product Information

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<b>Application</b>	IHC-P, FC, WB, E
<b>Primary Accession</b>	<a href="#">Q94776</a>
<b>Other Accession</b>	<a href="#">Q9R190</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	75023
<b>Antigen Region</b>	516-544

## Additional Information

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<b>Gene ID</b>	9219
<b>Other Names</b>	Metastasis-associated protein MTA2, Metastasis-associated 1-like 1, MTA1-L1 protein, p53 target protein in deacetylase complex, MTA2, MTA1L1, PID
<b>Target/Specificity</b>	This PID/MTA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 516-544 amino acids from the C-terminal region of human PID/MTA2.
<b>Dilution</b>	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	PID/MTA2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MTA2
<b>Synonyms</b>	MTA1L1, PID

<b>Function</b>	May function as a transcriptional coregulator (PubMed: <a href="#">16428440</a> , PubMed: <a href="#">28977666</a> ). Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed: <a href="#">16428440</a> , PubMed: <a href="#">28977666</a> ).
<b>Cellular Location</b>	Nucleus {ECO:0000255   PROSITE-ProRule:PRU00512, ECO:0000255   PROSITE-ProRule:PRU00624, ECO:0000269   PubMed:28977666, ECO:0000269   PubMed:33283408}
<b>Tissue Location</b>	Widely expressed.

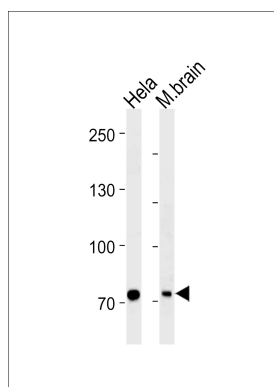
## Background

MTA2 is 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 family of 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.

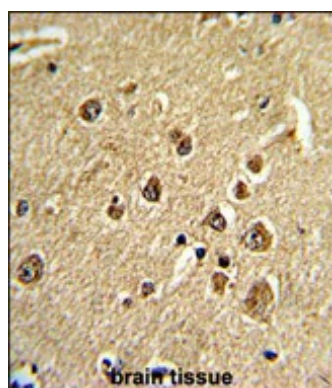
## References

Cui,Y., Mol. Endocrinol. 20 (9), 2020-2035 (2006)

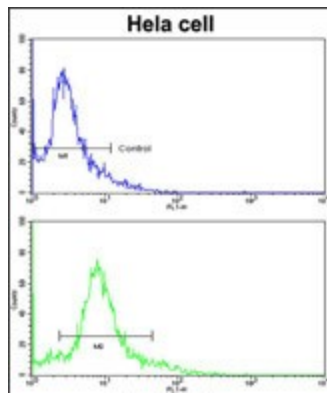
## Images



PID/MTA2 Antibody (C-term) (Cat. #AP6663b) western blot analysis in HeLa cell line and mouse brain tissue lysates (35ug/lane). This demonstrates the PID/MTA2 antibody detected the PID/MTA2 protein (arrow).



Formalin-fixed and paraffin-embedded human brain tissue reacted with PID/MTA2 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of hela cells using PID/MTA2 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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