

MTA1 Polyclonal Antibody

Catalog No :	YT2907
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	MTA1
Gene Name :	MTA1
Protein Name :	Metastasis-associated protein MTA1
Human Gene Id :	9112
Human Swiss Prot No :	Q13330
Mouse Swiss Prot No :	Q8K4B0
Rat Gene Id :	64520
Rat Swiss Prot No :	Q62599
Immunogen :	The antiserum was produced against synthesized peptide derived from human MTA1. AA range:171-220
Specificity :	MTA1 Polyclonal Antibody detects endogenous levels of MTA1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year (Do not lower than -25°C)

Observed Band : 80kD

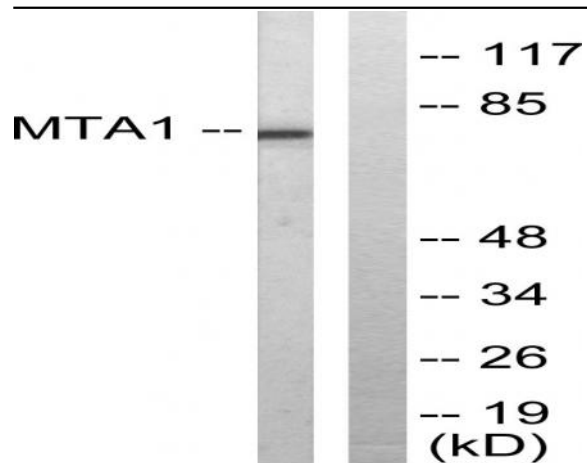
Background : This gene encodes a protein that was identified in a screen for genes expressed in metastatic cells, specifically, mammary adenocarcinoma cell lines. Expression of this gene has been correlated with the metastatic potential of at least two types of carcinomas although it is also expressed in many normal tissues. The role it plays in metastasis is unclear. It was initially thought to be the 70kD component of a nucleosome remodeling deacetylase complex, NuRD, but it is more likely that this component is a different but very similar protein. These two proteins are so closely related, though, 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. The profile and activity of this gene product suggest that it is involved in regulating transcription and that this may be accomplished by chromatin

Function : developmental stage: Highly expressed in metastatic cells., function: May be involved in the regulation of gene expression by covalent modification of histone proteins. The long isoform is a corepressor of estrogen receptor (ER). The short isoform binds to ER and sequesters it in the cytoplasm and enhances non-genomic responses of ER., miscellaneous: The short isoform contains a Leu-Arg-Ile-Leu-Leu motif (ER binding motif), similarity: Contains 1 BAH domain., similarity: Contains 1 ELM2 domain., similarity: Contains 1 GATA-type zinc finger., similarity: Contains 1 SANT domain., subunit: Component of the nucleosome-remodeling and histone-deacetylase multiprotein complex (NuRD). Interacts with HDAC1 and ITGB3BP/CENPR., tissue specificity: Widely expressed. High expression in brain, ovaries, adrenal glands and virgin mammary glands. Higher in tumors than in adjacent normal tissue from the same individual.,

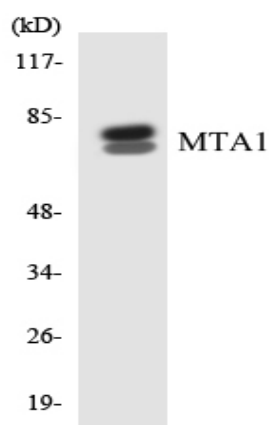
Subcellular Location : [Isoform Short]: Cytoplasm.; [Isoform Long]: Nucleus. Nucleus envelope. Cytoplasm. Cytoplasm, cytoskeleton. Associated with microtubules. Localization at the nuclear envelope is TPR-dependent.

Expression : Widely expressed. High expression in brain, liver, kidney, and cardiac muscle, ovaries, adrenal glands and virgin mammary glands. Higher in tumors than in adjacent normal tissue from the same individual. Up-regulated in a wide variety of cancers including breast, liver, ovarian, and colorectal cancer and its expression levels are closely correlated with tumor aggressiveness and metastasis.

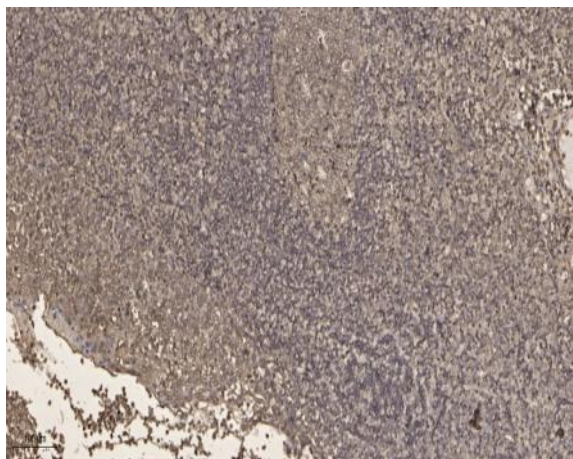
Products Images



Western blot analysis of lysates from Jurkat cells, using MTA1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from K562 cells using MTA1 antibody.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).