Datasheet for ABIN1881556

anti-MTA1 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	MTA1
Binding Specificity:	AA 659-687, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MTA1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This MTA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 659-687 amino acids from the C-terminal region of human MTA1.
Clone:	RB40949
Isotype:	Ig Fraction
Predicted Reactivity:	Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	MTA1
Alternative Name:	MTA1 (MTA1 Products)

Target Details

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 remodeling. [provided by RefSeq].
Molecular Weight:	80786
NCBI Accession:	NP_001190187, NP_004680
UniProt:	Q13330
Pathways:	Chromatin Binding

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in:	Zhu, Guo, Li, Ding, Chen: "Metastasis-associated protein 1 nuclear expression is associated with

tumor progression and clinical outcome in patients with non-small cell lung cancer." in: **Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer**, Vol. 5, Issue 8, pp. 1159-66, (2010) (PubMed).

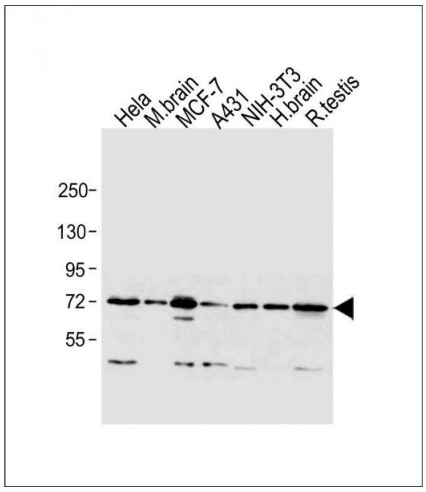
Van Rechem, Boulay, Pinte, Stankovic-Valentin, Guérardel, Leprince: "Differential regulation of HIC1 target genes by CtBP and NuRD, via an acetylation/SUMOylation switch, in quiescent versus proliferating cells." in: **Molecular and cellular biology**, Vol. 30, Issue 16, pp. 4045-59, (2010) (PubMed).

Yang, Liu, Li: "[Expression of Mta-1 and VEGF and their correlation in the endometrial cancer]." in: **Xi bao yu fen zi mian yi xue za zhi = Chinese journal of cellular and molecular immunology** , Vol. 26, Issue 7, pp. 682-4, (2010) (PubMed).

Li, Ohshiro, Khan, Kumar: "Requirement of MTA1 in ATR-mediated DNA damage checkpoint function." in: **The Journal of biological chemistry**, Vol. 285, Issue 26, pp. 19802-12, (2010) (PubMed).

Li, Pakala, Reddy, Ohshiro, Peng, Lian, Fu, Kumar: "Revelation of p53-independent function of MTA1 in DNA damage response via modulation of the p21 WAF1-proliferating cell nuclear antigen pathway." in: **The Journal of biological chemistry**, Vol. 285, Issue 13, pp. 10044-52, (2010) (PubMed).

Images



Western Blotting

Image 1. All lanes : Anti-MTA1 Antibody (C-term) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: mouse brain lysate Lane 3: MCF-7 whole cell lysate Lane 4: A431 whole cell lysate Lane 5: NIH-3T3 whole cell lysate Lane 6: human brain lysate Lane 7: rat testis lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 81 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.