abcam

Product datasheet

Anti-MTA1 antibody ab71153

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概述

产品名称	Anti-MTA1抗体
描述	**兔多克隆抗体**to MTA1
宿主	Rabbit
经测试应用	**适用于:** WB, IP, IHC-P
种属反应性	**与反应:** Mouse, Human **预测可用于:** Rat, Rabbit, Horse, Guinea pig, Rhesus monkey, Gorilla, Chinese hamster, Orangutan, Xenopus tropicalis, Platypus
免疫原	A synthetic peptide corresponding to a region between residue 665 and the C-terminus (residue 715) of MTA1 (NP_004680.1).
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab71153于以下的经测试应用**

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use a concentration of 0.1 µg/ml. Detects a band of approximately 35, 81 kDa (predicted molecular weight: 81 kDa).
IP		Use at 2-5 µg/mg of lysate.
IHC-P	★★★★★ (5)	1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能 May be involved in the regulation of gene expression by covalent modification of histone proteins. Isoform Long is a corepressor of estrogen receptor (ER). Isoform Short binds to ER and sequesters it in the cytoplasm and enhances non-genomic responses of ER.

组织特异性 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.

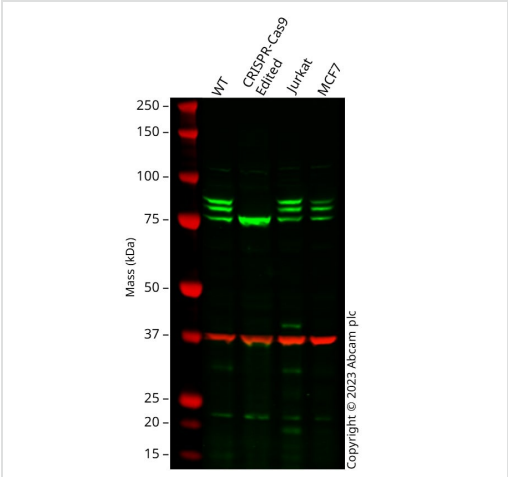
序列相似性 Contains 1 BAH domain.
Contains 1 ELM2 domain.
Contains 1 GATA-type zinc finger.
Contains 1 SANT domain.

发展阶段 Highly expressed in metastatic cells.

结构域 Isoform Short contains a Leu-Arg-Ile-Leu-Leu motif (ER binding motif).

细胞定位 Cytoplasm and Nucleus.

图片



Western blot - Anti-MTA1 antibody (ab71153)

All lanes : Anti-MTA1 antibody (ab71153) at 1/2000 dilution

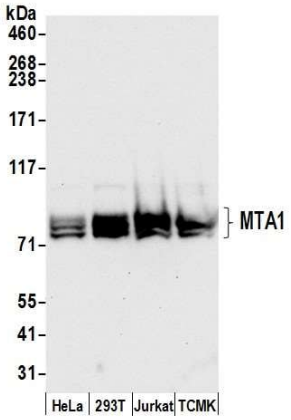
Lane 1 : Wild-type HEK-293 cell lysate
Lane 2 : Mta1 CRISPR-Cas9 edited HEK-293 cell lysate
Lane 3 : Jurkat cell lysate
Lane 4 : MCF7 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 81 kDa
Observed band size: 80-85 kDa

False colour image of Western blot: Anti-MTA1 antibody staining at 1/2000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab71153 was shown to bind specifically to MTA1. A band was observed at 80/85 kDa in wild-type HEK-293 cell lysates with no signal observed at this size in Mta1 CRISPR-Cas9 edited cell line **ab277164** (CRISPR-Cas9 edited cell lysate **ab277206**). The band observed in the CRISPR-Cas9 edited lysate lane below 80/85 kDa is likely to represent a truncated form of MTA1. This has not been investigated further and the functional properties of the gene product have not been determined. To generate this image, wild-type and Mta1 CRISPR-Cas9 edited HEK-293 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3% milk in TBS-0.1% Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



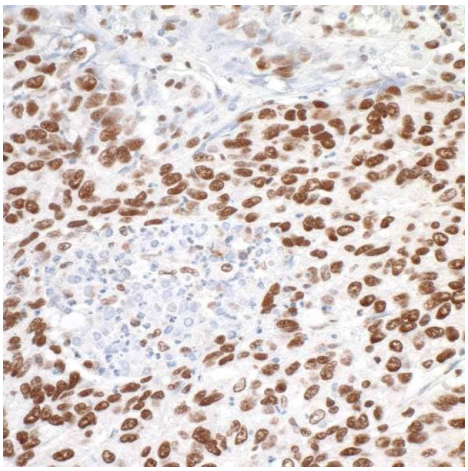
Western blot - Anti-MTA1 antibody (ab71153)

All lanes : Anti-MTA1 antibody (ab71153) at 0.1 µg/ml

Lane 1 : HeLa whole cell lysate
Lane 2 : HEK293T whole cell lysate
Lane 3 : Jurkat whole cell lysate
Lane 4 : TCMK whole cell lysate

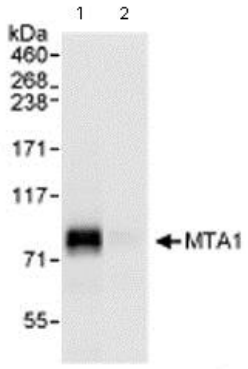
Lysates/proteins at 50 µg per lane.

Predicted band size: 81 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MTA1 antibody (ab71153)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human non-small cell lung cancer tissue labelling MTA1 with ab71153 at 1/1000 (0.2 µg/ml). Detection: DAB.



Immunoprecipitation - Anti-MTA1 antibody (ab71153)

Immunoprecipitation/ Western Blot of MTA1
Lane 1: ab71153 at 3µg/mg whole cell lysate.
Lane 2: Control IgG.
Whole cell lysate from Hela cells at 1mg for IP, 20% of IP loaded.
Subsequent WB detection was performed using 1 µg/ml ab71153.
Chemiluminescence with an exposure time of 1 second.

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