

Product Name: KD-Validated Metastasis Associated 1 Family Member 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00996

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 75.0kDa

Antigen Information

Gene Name	MTA2
Alternative Names	MTA2; Metastasis Associated 1 Family Member 2; MTA1L1; Metastasis Associated Gene Family, Member 2; P53 Target Protein In Deacetylase Complex; Metastasis-Associated Protein MTA2; Metastasis-Associated 1-Like 1; MTA1-L1 Protein; MTA1-L1; PID; Metastasis - Associated Gene 1-Like 1; Metastasis-Associated Protein 2
Gene ID	9219.0
SwissProt ID	O94776
Immunogen	A synthesized peptide derived from human MTA2

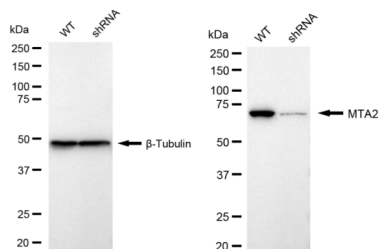
Background

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. [provided by RefSeq, May 2011]

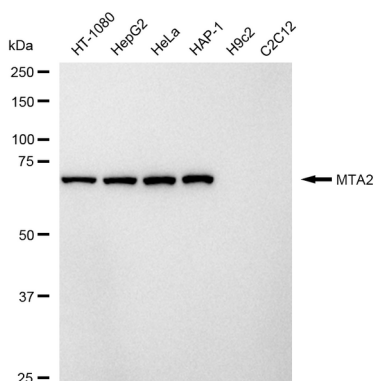
Research Area

Epigenetics and Nuclear Signaling

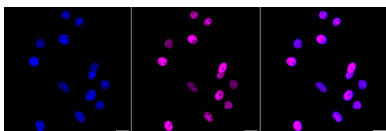
Image Data



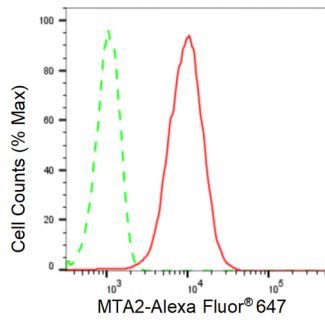
Western blotting analysis using MTA2 antibody (KVA00996). MTA2 expression in wild type (WT) and MTA2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with MTA2 antibody (KVA00996, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using MTA2 antibody (KVA00996). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MTA2 antibody (KVA00996, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with MTA2 antibody (KVA00996, 1:1,000). Nuclei were stained blue with DAPI; MTA2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and Smart Gain: High. Scale bar, 20 µm.



Flow cytometric analysis of MTA2 expression in HepG2 cells using MTA2 antibody (KVA00996, 1:2,000). Green, isotype control; red, MTA2.