

Mouse anti-Human MTDH Monoclonal Antibody | anti-MTDH antibody

MTDH Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320166	Mouse	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MTDH; Monoclonal Antibody; MTDH Monoclonal Antibody; Protein LYRIC; AEG1; LYRIC; 3D3/LYRIC; Astrocyte elevated gene-1 protein; AEG-1; Lysine-rich CEACAM1 co-isolated protein; Metadherin; Metastasis adhesion protein; anti-MTDH antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Specificity	MTDH Monoclonal Antibody detects endogenous levels of MTDH protein.
Purity/Purification	Affinity purification
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Applicable Applications for anti-MTDH antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Purified recombinant fragment of human MTDH expressed in E coli.
Modification	Unmodified/Total
Caution	Was originally (PubMed; 15093543) thought to be a type II membrane protein but this is inconsistent with the results of multiple phosphorylation studies because this topology would locate the phosphorylation sites in the lumen or extracellularly rather than in the cytoplasm.
Function	Downregulates SLC1A2/EAAT2 promoter activity when expressed ectopically. Activates the nuclear factor kappa-B (NF-kappa-B) transcription factor. Promotes anchorage-independent growth of immortalized melanocytes and astrocytes which is a key component in tumor cell expansion. Promotes lung metastasis and also has an effect on bone and brain metastasis, possibly by enhancing the seeding of tumor cells to the target organ endothelium. Induces chemoresistance.
Induction	By TNF-alpha (at protein level). By HIV-1 infection of primary fetal astrocytes.
Miscellaneous	Knockdown significantly reduces the adhesion of cancer cells to lung microvascular endothelial cells and the reciprocal effect is observed following overexpression.
Subcellular Location	In epithelial cells, recruited to tight junctions (TJ) during the maturation of the TJ complexes. A nucleolar staining may be due to nuclear targeting of an isoform lacking the transmembrane domain (By similarity). TNF-alpha causes translocation from the cytoplasm to the nucleus.
Subunit	Interacts with BCIPP, CREBBP/CBP and RELA/p65.
Tissue Specificity	Widely expressed with highest levels in muscle-dominating organs such as skeletal muscle, heart, tongue and small intestine and in endocrine glands such as thyroid and adrenal gland. Overexpressed in various cancers including breast, brain, prostate, melanoma and glioblastoma multiforme.
Preparation and Storage	Store at -20 degree C/1 year

IMAGES



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of Hela cells using MTDH Monoclonal Antibody (green) and negative control (purple).



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded human Liver tissues with AEC staining using MTDH Monoclonal Antibody.



WB (Western Blot)
Western Blot analysis using MTDH Monoclonal Antibody against K562 (1). SKBR-3 (2). T47D (3). HeLa (4) and MCF-7 (5) cell lysate.

ADDITIONAL INFORMATION

Product Categories/Family for anti-MTDH antibody	Primary Antibodies
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NCBI AND UNIPROT INFORMATION

NCBI GI #	223555917
NCBI GeneID	92140
NCBI Accession #	NP_848927.2
NCBI GenBank Nucleotide #	NM_178812.3
UniProt Accession #	Q86UE4; Q05DH2; Q52QU9; Q6PK07; Q8TCX3
Molecular Weight	63,837 Da
NCBI Official Full Name	protein LYRIC
NCBI Official Synonym Full Names	metadherin
NCBI Official Symbol	MTDH
NCBI Official Synonym Symbols	3D3; AEG1; AEG-1; LYRIC; LYRIC/3D3
NCBI Protein Information	protein LYRIC
UniProt Protein Name	Protein LYRIC
UniProt Gene Name	MTDH
UniProt Synonym Gene Names	AEG1; LYRIC; AEG-1
UniProt Entry Name	LYRIC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.