

Anti-Metadherin Antibody

Catalog # AP96145

Product Information

Application	WB, IHC, FC
Primary Accession	Q86UE4
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	63837

Additional Information

Gene ID	92140
Other Names	AEG1; LYRIC; Protein LYRIC; 3D3/LYRIC; Astrocyte elevated gene-1 protein; AEG-1; Lysine-rich CEACAM1 co-isolated protein; Metadherin; Metastasis adhesion protein
Target/Specificity	Purified recombinant fragment of human Metadherin expressed in E. Coli.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/50 - 1/100)
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

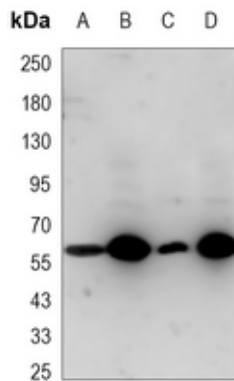
Name	MTDH
Synonyms	AEG1, LYRIC
Function	Down-regulates SLC1A2/EAAT2 promoter activity when expressed ectopically. Activates the nuclear factor kappa-B (NF-kappa-B) transcription factor. Promotes anchorage-independent growth of immortalized melanocytes and astrocytes which is a key component in tumor 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.
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein. Cell junction, tight junction Nucleus, nucleolus. Cytoplasm, perinuclear region Note=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 causes translocation from the cytoplasm to the nucleus.

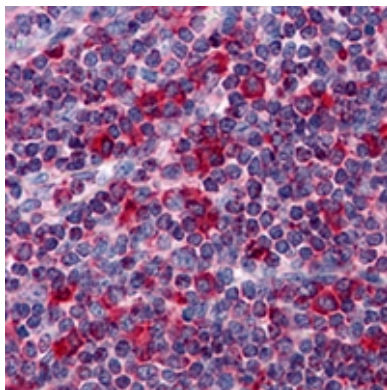
Tissue Location

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.

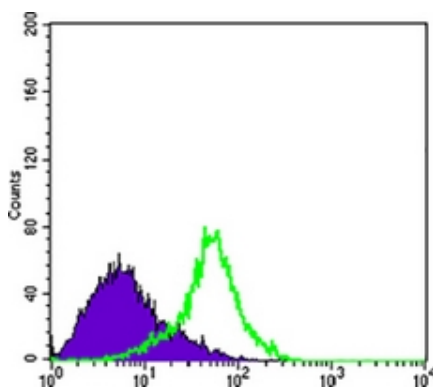
Images



Western blot analysis of Metadherin expression in Jurkat (A), A549 (B), MCF7 (C), HeLa (D) whole cell lysates. (Predicted band size: 64 kD; Observed band size: 64 kD)



Immunohistochemical analysis of Metadherin staining in human liver formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of Metadherin in HeLa cells (green) and negative control (purple).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.