

M11D1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9974a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9H7H0
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB25675
Calculated MW	50734
Antigen Region	88-116

Additional Information

Gene ID	64745
Other Names	Methyltransferase-like protein 17, mitochondrial, 211-, False p73 target gene protein, Methyltransferase 11 domain-containing protein 1, Protein RSM22 homolog, mitochondrial, METTL17, METT11D1
Target/Specificity	This M11D1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 88-116 amino acids from the N-terminal region of human M11D1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	M11D1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	METTL17 {ECO:0000303 PubMed:36482135, ECO:0000312 HGNC:HGNC:19280}
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Function	Mitochondrial ribosome (mitoribosome) assembly factor (PubMed: 36482135 , PubMed: 38199006). Binds at the interface of the head and body domains of the mitochondrial small ribosomal subunit (mt-SSU), occluding the mRNA channel and preventing compaction of the head domain towards the body (PubMed: 36482135). Probable inactive methyltransferase: retains the characteristic folding and ability to bind S-adenosyl-L-methionine, but it probably lost its methyltransferase activity (PubMed: 38234605).
Cellular Location	Mitochondrion matrix {ECO:0000250 UniProtKB:Q3U2U7}

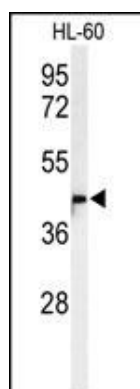
Background

M11D1 may be a component of the mitochondrial small ribosomal subunit.

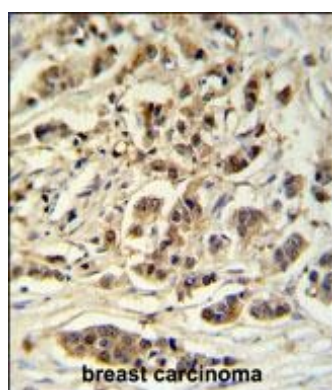
References

Lim, J., et al. Cell 125(4):801-814(2006)
 Saveanu, C., et al. J. Biol. Chem. 276(19):15861-15867(2001)

Images

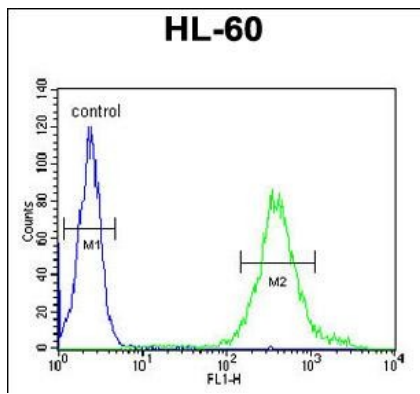


Western blot analysis of M11D1 Antibody (N-term) (Cat. #AP9974a) in HL-60 cell line lysates (35ug/lane). M11D1 (arrow) was detected using the purified Pab.



M11D1 Antibody (N-term) (Cat. #AP9974a) IHC analysis in formalin fixed and paraffin embedded breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the M11D1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

M11D1 Antibody (N-term) (Cat. #AP9974a) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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