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THAP11 Antibody (Center)

Mouse Monoclonal Antibody (Mab)
Catalog # AM1984b

Product Information

Application	WB, E
Primary Accession	Q96EK4
Other Accession	A5PKF5, NP_065190.2
Reactivity	Human, Mouse
Predicted	Bovine
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Clone Names	364CT25.4.2
Calculated MW	34455
Antigen Region	165-193

Additional Information

Gene ID	57215
Other Names	THAP domain-containing protein 11, THAP11
Target/Specificity	This THAP11 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 165-193 amino acids from the Central region of human THAP11.
Dilution	WB~~1:500~1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	THAP11 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	THAP11
Function	Transcription factor, which has both transcriptional activation and repression activities (PubMed:31905202). Also modulates chromatin accessibility (PubMed:38361031). In complex with HCFC1 and ZNF143,

	regulates the expression of several genes, including AP2S1, ESCO2, OPHN1, RBL1, UBXN8 and ZNF32 (PubMed:26416877). May regulate the expression of genes that encode both cytoplasmic and mitochondrial ribosomal proteins (By similarity). Required for normal mitochondrial development and function. Regulates mitochondrial gene expression, including that of components of the electron transport chain (By similarity). Involved in the maintainance of pluripotency in early embryonic cells, possibly through its action on mitochondrial maturation which is required to meet high energy demands of these cells (By similarity). Required for early development of retina, preventing premature exit of retinal progenitor cells from the cell cycle. This effect may also be mediated by its action on mitochondria (By similarity). Through the regulation of MMACHC gene expression, controls cobalamin metabolism (PubMed:28449119, PubMed:31905202). Required for normal brain development and neural precursor differentiation (By similarity). Involved in cell growth (PubMed:31905202).
Cellular Location	Nucleus. Cytoplasm Note=In oocytes, detected in the ooplasm, without evidence of its presence in the nucleus (By similarity). Found in the nucleus of undifferentiated embryonic stem cells (PubMed:18585351). Evenly distributed between nucleus and cytoplasm in skin fibroblasts (PubMed:37148549). {ECO:0000250|UniProtKB:Q9JJD0, ECO:0000269|PubMed:18585351, ECO:0000269|PubMed:37148549}
Tissue Location	Expressed in skin fibroblasts.

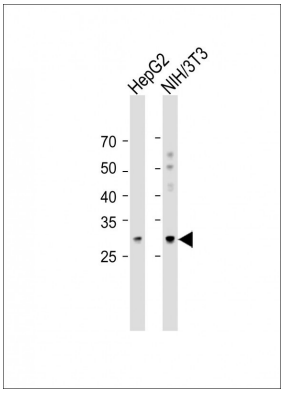
Background

The protein encoded by this gene contains a THAP domain, which is a conserved DNA-binding domain that has striking similarity to the site-specific DNA-binding domain (DBD) of Drosophila P element transposases.

References

Zhu, C.Y., et al. Cell Death Differ. 16(3):395-405(2009)
Dejosez, M., et al. Cell 133(7):1162-1174(2008)
Roussigne, M., et al. Trends Biochem. Sci. 28(2):66-69(2003)
Ueki, N., et al. Nat. Biotechnol. 16(13):1338-1342(1998)
Li, S.H., et al. Genomics 16(3):572-579(1993)

Images



All lanes: Anti-THAP11 Antibody (Center) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: NIH/3T3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Mouse IgM, (H+L), Peroxidase conjugated (ASP1613) at 1/8000 dilution. Observed band size: 33 KDa Blocking/Dilution buffer: 5% NFDM/TBST.