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MP68 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20791c

Product Information

Application	WB, E
Primary Accession	P56378
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB50292
Calculated MW	6662

Additional Information

Gene ID	9556
Other Names	68 kDa mitochondrial proteolipid, MP68, C14orf2
Target/Specificity	This MP68 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 44-78 amino acids from the C-terminal region of human MP68.
Dilution	WB~~1:1000 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	MP68 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ATP5MJ (HGNC:1188)
Synonyms	ATP5MPL, C14orf2, MP68
Function	Subunit j, of the mitochondrial membrane ATP synthase complex (F(1)F(0) ATP synthase or Complex V) that produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain (PubMed:37244256). ATP

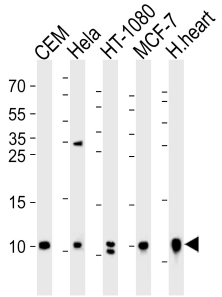
synthase complex consist of a soluble F(1) head domain - the catalytic core - and a membrane F(1) domain - the membrane proton channel (PubMed:37244256). These two domains are linked by a central stalk rotating inside the F(1) region and a stationary peripheral stalk (PubMed:37244256). During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation (Probable). In vivo, can only synthesize ATP although its ATP hydrolase activity can be activated artificially in vitro (By similarity). Part of the complex F(0) domain (PubMed:37244256). Minor subunit required to maintain the ATP synthase population in the mitochondria (PubMed:24330338).

Cellular Location Mitochondrion membrane; Single-pass membrane protein

References

Mao M.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:8175-8180(1998).
Zhang C.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
Li W.B.,et al.Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Heilig R.,et al.Nature 421:601-607(2003).

Images



Western blot analysis of lysates from CEM, Hela, HT-1080, MCF-7 cell line and human heart tissue lysate(from left to right), using MP68 Antibody (C-term)(Cat. #AP20791c). AP20791c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 35ug per lane.