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MP68 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5384

Product Information

Application	WB
Primary Accession	P56378
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	6662
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	9556
Antigen Region	44-78
Other Names	68 kDa mitochondrial proteolipid, MP68, C14orf2
Dilution	WB~~1:1000
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.
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)

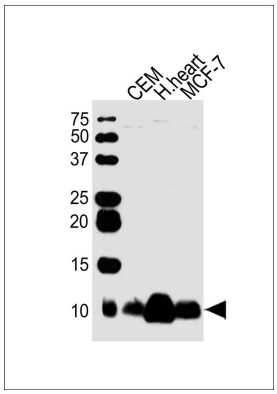
ATP synthase or Complex V) that produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain (PubMed:37244256). ATP synthase complex consist of a soluble F(1) head domain - the catalytic core - and a membrane 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



All lanes : Anti-MP68 Antibody (C-term) at 1:1000 dilution Lane 1: CEM whole cell lysates Lane 2: human heart lysates Lane 3: MCF-7 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 7 kDa Blocking/Dilution buffer: 5% NFDM/TBST.