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Anti-ATP5JL Antibody

Catalog # AP51005

Product Information

Application	WB, IHC
Primary Accession	P56134
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	10918

Additional Information

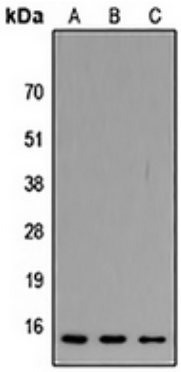
Gene ID	9551
Other Names	ATP synthase f chain mitochondrial; ATP5JL; ATPK
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ATP5JL. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

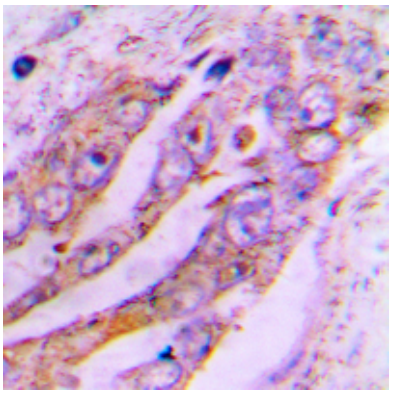
Name	ATP5MF (HGNC:848)
Synonyms	ATP5J2, ATP5JL
Function	Subunit f, of the mitochondrial membrane ATP synthase complex (F(1)F(0) ATP synthase or Complex V) that produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory 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).

Cellular Location	Mitochondrion. Mitochondrion inner membrane; Single-pass membrane protein

Images



Western blot analysis of ATP5JL expression in HEK293T (A), Raw264.7 (B), H9C2 (C) whole cell lysates. (Predicted band size: 10 kD; Observed band size: 15 kD)



Immunohistochemical analysis of ATP5JL staining in human lung cancer 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.

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