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Anti-ATP5H Antibody
Rabbit polyclonal antibody to ATP5H
Catalog # AP60540

Specification

Anti-ATP5H Antibody - Product Information

Application	**WB, IHC**
Primary Accession	O75947
Reactivity	**Human, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**18491**

Anti-ATP5H Antibody - Additional Information

Gene ID 10476

Other Names
ATP synthase subunit d mitochondrial; ATPase subunit d

Target/Specificity
KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ATP5H. The exact sequence is proprietary.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)
IHC~~1:100~500

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-ATP5H Antibody - Protein Information

Name ATP5PD (HGNC:845)

Synonyms ATP5H

Function
Subunit d, 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:<a

href="http://www.uniprot.org/citations/37244256" target="_blank">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). Part of the complex F(0) domain and the peripheric stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements (By similarity).

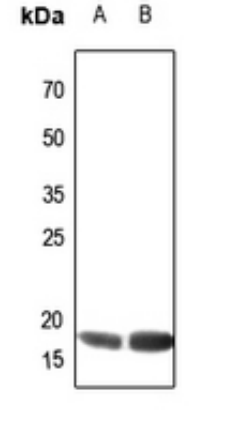
Cellular Location
Mitochondrion. Mitochondrion inner membrane.

Anti-ATP5H Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ATP5H Antibody - Images



Western blot analysis of ATP5H expression in Hela (A), HGC27 (B) whole cell lysates.

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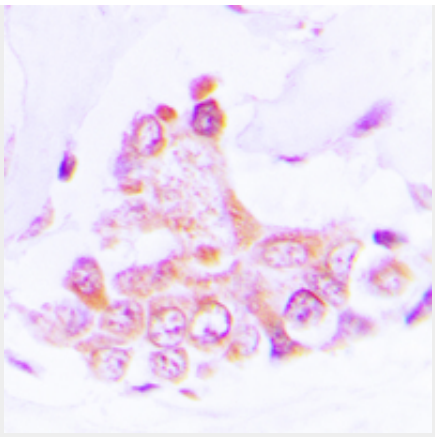

Immunohistochemical analysis of ATP5H staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-ATP5H Antibody - Background

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