

**ATP5D Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5967A****Specification**

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**ATP5D Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">P30049</a>
Other Accession	<a href="#">NP_001678.1</a> , <a href="#">NP_001001975.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	17490
Antigen Region	1-30

**ATP5D Antibody (N-term) - Additional Information****Gene ID** 513**Other Names**

ATP synthase subunit delta, mitochondrial, F-ATPase delta subunit, ATP5D

**Target/Specificity**

This ATP5D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human ATP5D.

**Dilution**

WB~~1:1000

IHC-P~~1:50~100

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**

ATP5D Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ATP5D Antibody (N-term) - Protein Information****Name** ATP5F1D ([HGNC:837](#))

**Function** Subunit delta, 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 (Probable) (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). With the central stalk subunit gamma, is essential for the biogenesis of F(1) catalytic part of the ATP synthase complex namely in the formation of F1 assembly intermediate (PubMed:[29499186](#)).

#### Cellular Location

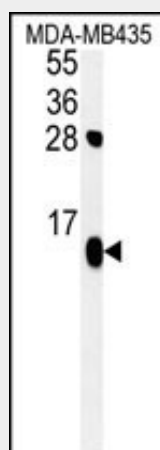
Mitochondrion. Mitochondrion inner membrane.

#### ATP5D Antibody (N-term) - Protocols

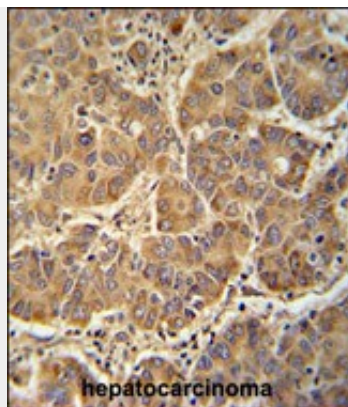
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### ATP5D Antibody (N-term) - Images



ATP5D Antibody (N-term) (Cat. #AP5967a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the ATP5D antibody detected the ATP5D protein (arrow).



ATP5D antibody (N-term) (Cat. #AP5967a) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ATP5D antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.