

**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

#### 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** Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) 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:[29478781](#)). F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP turnover in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F(1) domain and of the central stalk which is part of the complex rotary element. Rotation of the central stalk against the surrounding  $\alpha(3)\beta(3)$  subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits (PubMed:[1531933](#)).

#### Cellular Location

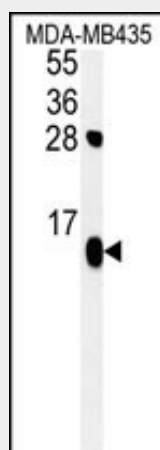
Mitochondrion. Mitochondrion inner membrane.

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

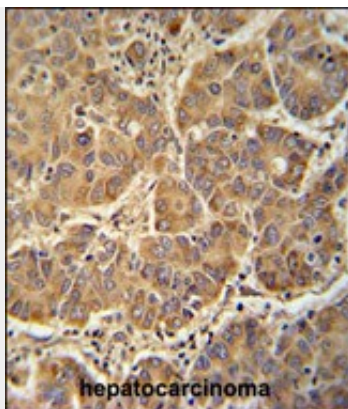
Provided below are standard protocols that you may find useful for product applications.

- [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.