

Datasheet for ABIN7144847

anti-ATP5F1D antibody (AA 1-168)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	ATP5F1D
Binding Specificity:	AA 1-168
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP5F1D antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human ATP synthase subunit delta, mitochondrial protein (1-168AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Antigen Affinity Purified

Target Details

Target:	ATP5F1D
Alternative Name:	ATP5D (ATP5F1D Products)
Background:	Background: 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

Target Details

generated by electron transport complexes of the respiratory chain. 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.

Aliases: ATP synthase subunit delta, mitochondrial antibody, ATP synthase subunit delta, mitochondrial antibody, ATP synthase, H⁺ transporting, mitochondrial F1 complex, delta subunit antibody, ATP5D antibody, ATPD_HUMAN antibody, F ATPase delta subunit antibody, F-ATPase delta subunit antibody, Mitochondrial ATP synthase complex delta subunit precursor antibody, Mitochondrial ATP synthase delta subunit antibody

UniProt: [P30049](#)

Pathways: [Proton Transport](#), [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

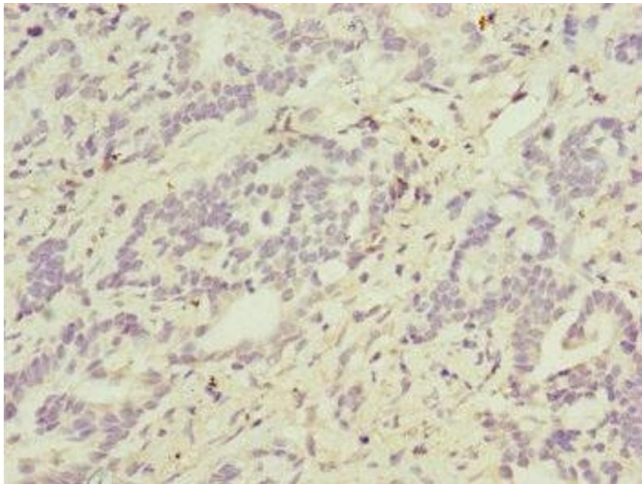
Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

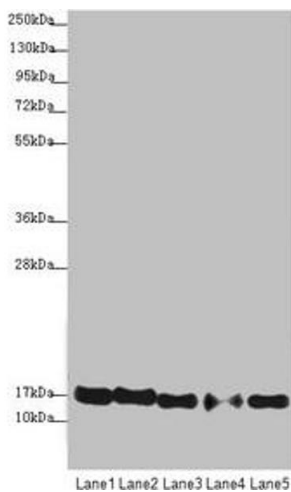
Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



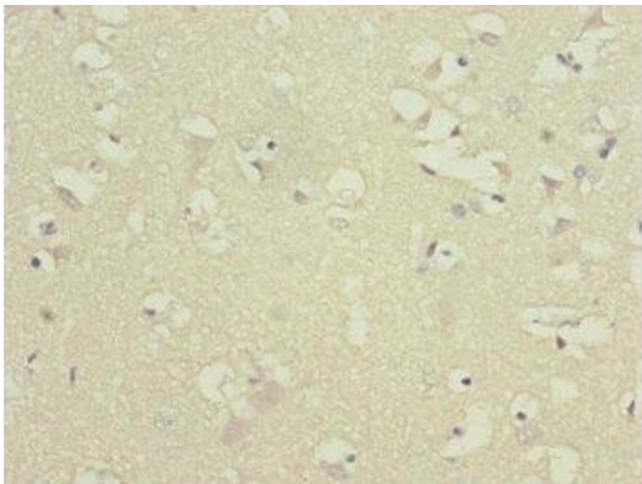
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human lung cancer using ABIN7144847 at dilution of 1:100



Western Blotting

Image 2. Western blot All lanes: ATP5F1D antibody at 1.94 μ g/mL Lane 1: Raji whole cell lysate Lane 2: NIH/3T3 whole cell lysate Lane 3: A549 whole cell lysate Lane 4: MDA-MB-231 whole cell lysate Lane 5: HepG2 whole cell lysate Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 18 kDa Observed band size: 18 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human brain tissue using ABIN7144847 at dilution of 1:100