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Datasheet for ABIN7265720
anti-ATP5I antibody (AA 1-69)

3 Images

Overview

Quantity:	100 µL
Target:	ATP5I
Binding Specificity:	AA 1-69
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP5I antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	ATP5I Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-69 of human ATP5I (NP_009031.1).
Sequence:	MVPPVQVSPL IKLGRYSALF LGVAYGATRY NYLKPRAEER RRIAEEKKK QDELKRIARE LAEDDSILK
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

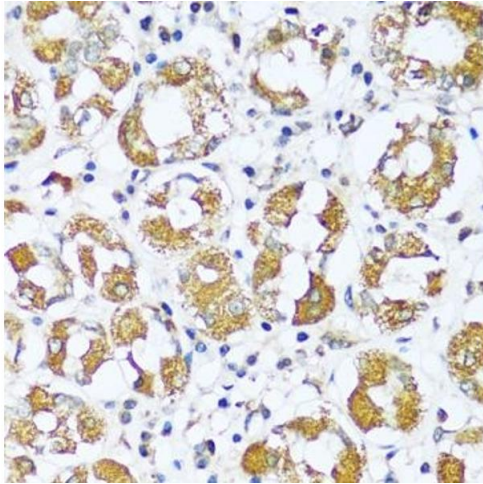
Target:	ATP5I
Alternative Name:	ATP5I (ATP5I Products)
Background:	Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the e subunit of the Fo complex. Alternative splicing results in multiple transcript variants.,ATP5I,ATP5K,Signal Transduction,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,ATP5I
Molecular Weight:	7kDa
Gene ID:	521
UniProt:	P56385
Pathways:	Proton Transport , Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

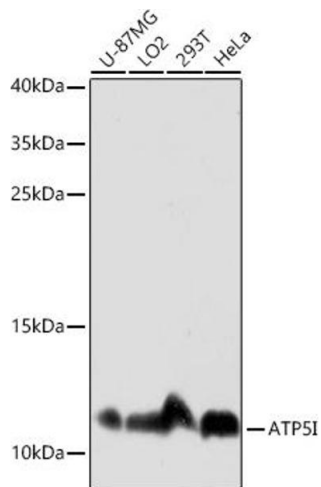
Handling

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
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



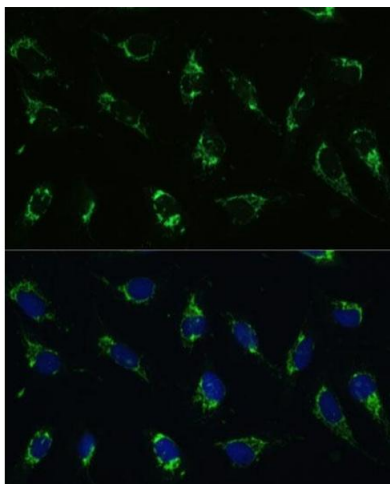
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human stomach using I antibody (ABIN7265720) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using I antibody (ABIN7265720) at 1:3000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunofluorescence

Image 3. Immunofluorescence analysis of U-2 OS cells using I antibody (ABIN7265720) at dilution of 1:100. Blue: DAPI for nuclear staining.