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anti-ATP5A1 antibody (Internal Region)

3 Images

Overview

Target Details

Target:

ATP5A1



Go to Product page

$100 \, \mu L$ Quantity: Target: ATP5A1 Binding Specificity: Internal Region Reactivity: Human, Mouse, Rat Host: Rabbit Clonality: Polyclonal Conjugate: This ATP5A1 antibody is un-conjugated Application: Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC) **Product Details** Immunogen: A synthesized peptide derived from human ATP5A1, corresponding to a region within the internal amino acids. Isotype: IgG ATP5A1 Antibody detects endogenous levels of total ATP5A1. Specificity: Predicted Reactivity: Pig, Bovine, Chicken, Xenopus The antiserum was purified by peptide affinity chromatography using SulfoLinkTM Coupling Purification: Resin (Thermo Fisher Scientific).

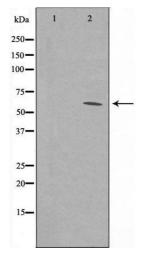
Target Details

Alternative Name:	ATP5A1 (ATP5A1 Products)
Background:	Description: Mitochondrial membrane ATP synthase (F1F0 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. F-type ATPases consist o
	two structural domains, F1 - containing the extramembraneous catalytic core, and F0 -
	containing the membrane proton channel, linked together by a central stalk and a peripheral
	stalk. During catalysis, ATP synthesis in the catalytic domain of F1 is coupled via a rotary
	mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta forn
	the catalytic core in F1. Rotation of the central stalk against the surrounding alpha3beta3
	subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.
	Subunit alpha does not bear the catalytic high-affinity ATP-binding sites (By similarity).
	Gene: ATP5A1
Molecular Weight:	60 kDa
Gene ID:	498
UniProt:	P25705
Pathways:	Proton Transport, Ribonucleoside Biosynthetic Process
Application Details	
Application Notes:	WB 1:500-1:1000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %
	glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
	00.00
Storage:	-20 °C

Expiry Date:

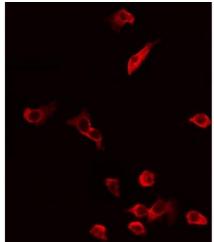
12 months

Images



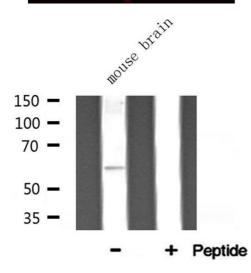
Western Blotting

Image 1. Western blot analysis of extracts from RAW264.7 cells using ATP5A1 antibody. The lane on the left is treated with the antigen-specific peptide.



Immunofluorescence (fixed cells)

Image 2. ABIN6274877 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



Western Blotting

Image 3. Western blot analysis of ATP5A1 expression in Mouse brain lysate