

Datasheet for ABIN6260140
anti-ATP1A1 antibody (N-Term)

5 Images

1 Publication

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Overview

Quantity:	100 µL
Target:	ATP1A1
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP1A1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human ATP1A1, corresponding to a region within N-terminal amino acids.
Isotype:	IgG
Specificity:	ATP1A1 Antibody detects endogenous levels of total ATP1A1.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	ATP1A1
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Target Details

Alternative Name:	ATP1A1 (ATP1A1 Products)
Background:	<p>Description: This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients.</p> <p>Gene: ATP1A1</p>
Molecular Weight:	112kDa
Gene ID:	476
UniProt:	P05023
Pathways:	Thyroid Hormone Synthesis , Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Proton Transport , Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, 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.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Publications

Product cited in:	Wang, Deng, Yue, Chen, Zhang, Shi, Wu: "Glutamine Enhances the Hypoglycemic Effect of
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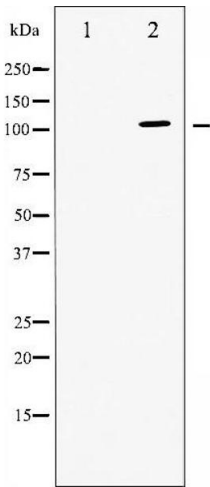
Insulin in L6 Cells via Phosphatidylinositol-3-Kinase (PI3K)/Protein Kinase B (AKT)/Glucose Transporter 4 (GLUT4) Signaling Pathway." in: **Medical science monitor : international medical journal of experimental and clinical research**, Vol. 24, pp. 1241-1250, (2018) ([PubMed](#)).

Images



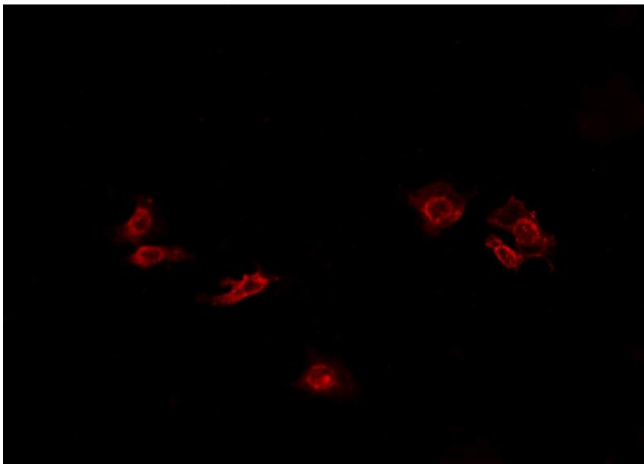
Immunofluorescence (fixed cells)

Image 1. ABIN6269088 staining Hela cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor® 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



Western Blotting

Image 2. Western blot analysis of ATPase expression in PMA treated 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



Immunofluorescence (fixed cells)

Image 3. ABIN6269088 staining HeLa cells 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) antibody (Cat.# S0006), diluted at 1/600, was used as secondary antibody.

Images

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6260140.