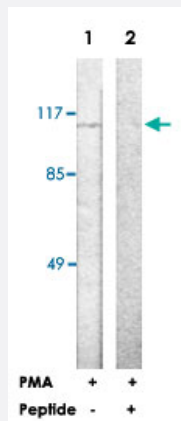


ATP1A1 polyclonal antibody

Catalog # PAB17289 Size 100 ug

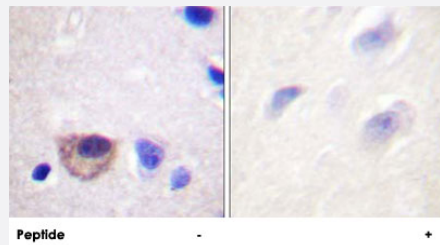
Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from 293 cells, treated with PMA (125 ng/ml, 30 mins), using ATP1A1 polyclonal antibody (Cat # PAB17289).

Peptide "+" means "with peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry analysis of paraffin-embedded human brain tissue using ATP1A1 polyclonal antibody (Cat # PAB17289).

Peptide "+" means "with peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ATP1A1.
Immunogen	A synthetic peptide corresponding to residues surrounding serine 363 of human ATP1A1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of total ATP1A1 protein
Form	Liquid

Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) Immunofluorescence (1:100-1:500) ELISA (1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (150mM NaCl, 0.02% sodium azide, 50% glycerol)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — ATP1A1

Entrez GeneID	476
Protein Accession#	P05023
Gene Name	ATP1A1
Gene Alias	MGC3285, MGC51750
Gene Description	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide
Omim ID	182310
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes an alpha 1 subunit. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

G00-119-711|Na⁺, K⁺ ATPase alpha subunit|Na⁺/K⁺ -ATPase alpha 1 subunit|Na⁺/K⁺ ATPase 1|Na, K-ATPase, alpha-A catalytic polypeptide|Na,K-ATPase alpha-1 subunit|Na,K-ATPase catalytic subunit alpha-A protein|Na/K-ATPase alpha subunit fragment (aa 1-149)|OTT

Publication Reference

- [Expression of extracellular calcium-sensing receptor in human osteoblastic MG-63 cell line.](#)

Yamaguchi T, Chattopadhyay N, Kifor O, Ye C, Vassilev PM, Sanders JL, Brown EM.

American Journal of Physiology. Cell Physiology 2001 Feb; 280(2):C382.

- [Colonic H-K-ATPase alpha- and beta-subunits express ouabain-insensitive H-K-ATPase.](#)

Sangan P, Thevananther S, Sangan S, Rajendran VM, Binder HJ.

American Journal of Physiology. Cell Physiology 2000 Jan; 278(1):C182.

Application: IF, WB-Tr, Human, COS-7, HEK 293 cells

- [Vascular smooth muscle expresses a truncated Na⁺, K\(+\)-ATPase alpha-1 subunit isoform.](#)

Medford RM, Hyman R, Ahmad M, Allen JC, Pressley TA, Allen PD, Nadal-Ginard B.

The Journal of Biological Chemistry 1991 Sep; 266(27):18308.

Application: WB-Ti, Dog, Dog, carotid artery, Dog renal cortex, Dog vascular smooth muscle,

Pathway

- [Cardiac muscle contraction](#)

Disease

- [Altitude Sickness](#)
- [Bipolar Disorder](#)

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hypertension](#)
- [Hypokalemic Periodic Paralysis](#)