ATPase (Phospho-Ser16) Antibody

Catalog No: #11938

Package Size: #11938-1 50ul #11938-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

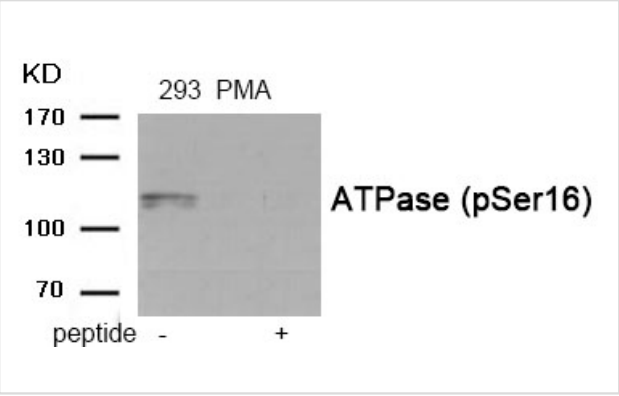
Description

Product Name	ATPase (Phospho-Ser16) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of ATPase only when phosphorylated at serine 16.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 16 (A-V-S(p)-E-Q) derived from Human ATPase.
Target Name	ATPase
Modification	Phospho
Other Names	A1A1; AT1A1; ATP1A1; K-ATPase 1; Sodium pump 1
Accession No.	Swiss-Prot#: P05023; NCBI Gene#: 476; NCBI Protein#: NP_000692.2
Uniprot	P05023
GeneID	476;
SDS-PAGE MW	112kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from 293 cells treated with PMA using Phospho-ATPase (Ser16) antibody #11938.The lane on the right is treated with the antigen-specific peptide.

Background

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.

Kava L, Rossi NF, Mattingly R, Yingst DR (2012) Am J Hypertens 25, 487-91

Soltoff SP, Asara JM, Hedden L (2010)J Biol Chem 285, 36330-8

Efendiev R, et al. (2006) FEBS Lett 580, 5067-70

Note: This product is for in vitro research use only