## ATPase (Phospho-Ser16) Antibody

Catalog No: #11938

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



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

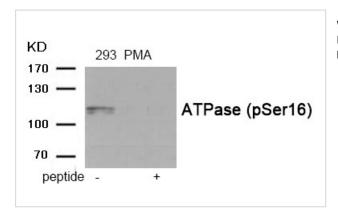
Description
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Clonality Polyclonal Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies 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 az and 50% glycerol.	Product Name	ATPase (Phospho-Ser16) Antibody
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	Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide
Storage Store at -20°C/1 year		and 50% glycerol.
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## **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