

## Na,K-ATPase alpha1 (Phospho-Ser23) Antibody

Catalog No: #12052

Package Size: #12052-1 50ul #12052-2 100ul

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## Description

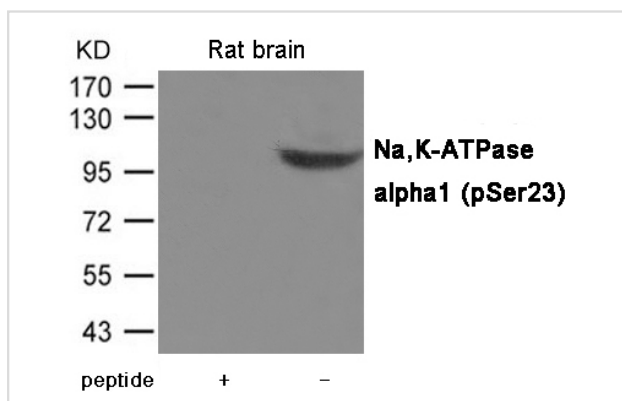
Product Name	Na,K-ATPase alpha1 (Phospho-Ser23) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB
Species Reactivity	Rt
Specificity	The antibody detects endogenous level of Na,K-ATPase alpha1 only when phosphorylated at Serine 23.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Serine 23 (K-K-S(p)-K-K) derived from Rat Na,K-ATPase alpha1.
Target Name	Na,K-ATPase alpha1
Modification	Phospho
Other Names	Nkaa1b
Accession No.	Swiss-Prot#: P05023; NCBI Gene#: 476; NCBI Protein#: NP_000692.2
Uniprot	P05023
GeneID	476;
SDS-PAGE MW	113kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

## Application Details

Predicted MW: 113kd

Western blotting: 1:500~1:1000

## Images



Western blot analysis of extracts from Rat brain tissue using Na,K-ATPase alpha1(Phospho-Ser23) Antibody #12052. The lane on the left 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.

Note: This product is for in vitro research use only