abcam

Product datasheet

Anti-alpha 1 Sodium Potassium ATPase antibody ab196884

3 Images

Overview

Product name	Anti-alpha 1 Sodium Potassium ATPase antibody
Description	Rabbit polyclonal to alpha 1 Sodium Potassium ATPase
Host species	Rabbit
Specificity	ab196884 detects endogenous level of total alpha 1 Sodium Potassium ATPase protein.
Tested applications	**Suitable for:** ICC/IF, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Rat
Immunogen	Synthetic peptide corresponding to Human alpha 1 Sodium Potassium ATPase (internal sequence). Synthesized non-phosphopeptide derived from Human alpha 1 Sodium Potassium ATPase around the phosphorylation site of serine 23 (K-K-S(p)-K-K). Database link: P06685
Positive control	HeLa and K562 cell extracts. HeLa cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 49% PBS, 0.87% Sodium chloride PBS without Mg^{2+} and Ca^{2+}
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab196884** in the following tested applications.

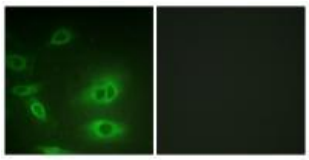
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100 - 1/500.
WB		1/500 - 1/3000. Predicted molecular weight: 113 kDa.

Target

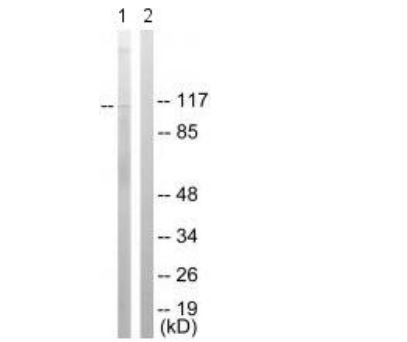
Function	This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients.
Sequence similarities	Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIC subfamily.
Post-translational modifications	Phosphorylation on Tyr-10 modulates pumping activity.
Cellular localization	Cell membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



Immunocytochemistry/ Immunofluorescence - Anti-alpha 1 Sodium Potassium ATPase antibody (ab196884)

Immunofluorescence analysis of HeLa cells, labeling alpha 1 Sodium Potassium ATPase using ab196884 at a 1/100 dilution. Right image treated with synthesized peptide.



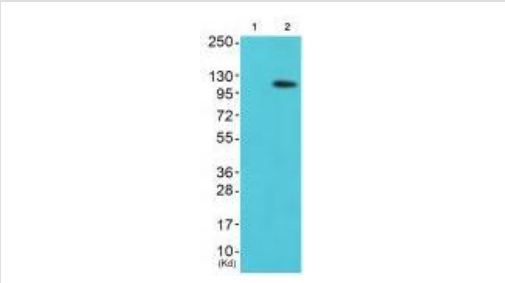
Western blot - Anti-alpha 1 Sodium Potassium ATPase antibody (ab196884)

All lanes : Anti-alpha 1 Sodium Potassium ATPase antibody (ab196884) at 1/500 dilution

Lane 1 : HeLa cell extract

Lane 2 : HeLa cell extract with synthesized peptide

Predicted band size: 113 kDa



Western blot - Anti-alpha 1 Sodium Potassium ATPase antibody (ab196884)

All lanes : Anti-alpha 1 Sodium Potassium ATPase antibody (ab196884) at 1/500 dilution

Lane 1 : K562 cell extract with synthesized peptide

Lane 2 : K562 cell extract

Predicted band size: 113 kDa

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