abcam

Product datasheet

HRP Anti-alpha 1 Sodium Potassium ATPase antibody [464.6] ab196696

★★★★★ 1 Abreviews　画像数 2

製品の概要

製品名	HRP Anti-alpha 1 Sodium Potassium ATPase antibody [464.6]
製品の詳細	HRP Mouse monoclonal [464.6] to alpha 1 Sodium Potassium ATPase
由来種	Mouse
標識	HRP
アプリケーション	**適用あり:** WB, IHC-P
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Full length native protein (purified). This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human Brain, Mouse Brain and Rat Brain tissue lysates. IHC-P: Normal human kidney tissue.
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark.
バッファー	pH: 7.40 Preservative: 0.1% 10% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
精製度	Affinity purified
ポリ/モノ	モノクローナル
クローン名	464.6
アイソタイプ	IgG1

軽鎖の種類	kappa

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab196696の使用に適用されます**

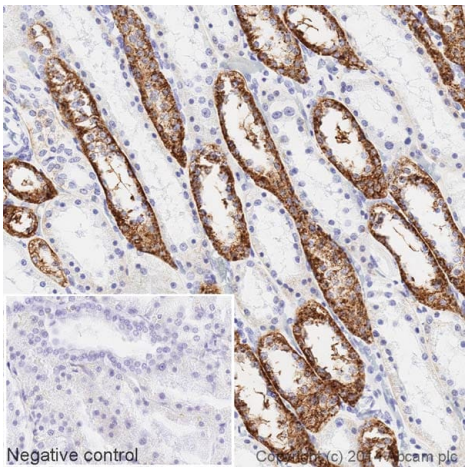
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/5000. Detects a band of approximately 98 kDa (predicted molecular weight: 112 kDa). Abcam recommends using 5% BSA as the blocking agent.
IHC-P		1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ターゲット情報

機能	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.
配列類似性	Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIC subfamily.
翻訳後修飾	Phosphorylation on Tyr-10 modulates pumping activity.
細胞内局在	Cell membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-alpha 1 Sodium Potassium ATPase antibody [464.6] (ab196696)

IHC image of alpha 1 Sodium Potassium ATPase staining in a section of formalin-fixed paraffin-embedded normal human kidney*, performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab196696 at 1/500 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

Western blot - HRP Anti-alpha 1 Sodium Potassium ATPase antibody [464.6] (ab196696)

All lanes : HRP Anti-alpha 1 Sodium Potassium ATPase antibody [464.6] (ab196696) at 1/5000 dilution

Lane 1 : Brain (Human) Tissue Lysate - adult normal tissue
Lane 2 : Brain (Mouse) Tissue Lysate
Lane 3 : Brain (Rat) Tissue Lysate

Lysates/proteins at 20 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 112 kDa
Observed band size: 98 kDa

Exposure time: 2 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab196696 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

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