abcam

ab300508

# Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249]-BSA&Azide free

Recombinant | RabMAb

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.2 - 7.4 Constituents: PBS |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Carrier free** | Yes |
| **Clone number** | EPR25414-249 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 1.046 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## WB

### Tested

| | |
|---|---|
| **Species** | Human, Transfected cell line - Human, Mouse, Rat |

| | |
|---|---|
| **Dilution info** | - |
| **Notes** | - |

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human, Mouse, Rat |
| **Dilution info** | - |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Transfected cell line - Human |
| **Dilution info** | - |
| **Notes** | - |

## IHC-Fr

### Tested

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Transfected cell line - Human |
| **Dilution info** | - |
| **Notes** | - |

# ICC/IF

## Tested

| | |
|---|---|
| **Species** | Human, Mouse |
| **Dilution info** | - |
| **Notes** | - |

## Expected

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## Not recommended

| | |
|---|---|
| **Species** | Transfected cell line - Human |
| **Dilution info** | - |
| **Notes** | - |

# Flow Cyt (Intra)

## Tested

| | |
|---|---|
| **Species** | Human, Mouse |
| **Dilution info** | - |
| **Notes** | - |

## Expected

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## Not recommended

| | |
|---|---|
| **Species** | Transfected cell line - Human |

| | |
|---|---|
| **Dilution info** | - |
| **Notes** | - |

## IP

**Not recommended**

| | |
|---|---|
| **Species** | Human, Mouse, Rat, Transfected cell line - Human |
| **Dilution info** | - |
| **Notes** | - |

## Target data

See full target information ATP1A1

| | |
|---|---|
| **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 (PubMed:29499166, PubMed:30388404). Could also be part of an osmosensory signaling pathway that senses body-fluid sodium levels and controls salt intake behavior as well as voluntary water intake to regulate sodium homeostasis (By similarity). |

## Storage

| | |
|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |
| **Storage information** | Do Not Freeze |

## Notes

**Patented technology**
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

**What are the advantages of a recombinant monoclonal antibody?**
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

**Conjugation ready**
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

**Compatibility**
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

## Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

| | |
|---|---|
| **Activity summary** | The sodium/potassium-transporting ATPase also known as Na+/K+ ATPase or the pan alpha subunit functions as an essential pump that exchanges three sodium ions out of the cell for two potassium ions into the cell using ATP as the energy source. This process maintains the electrochemical gradients of sodium and potassium across the plasma membrane. The ATPase has a molecular mass of approximately 112 kDa and consists of multiple isoforms including ATP1A1 ATP1A2 ATP1A3 and ATP1A4 expressed in various tissues such as the brain kidney and heart. |
| **Biological function summary** | The Na+/K+ ATPase is part of a larger complex that influences numerous cellular activities including cell volume regulation and secondary active transport. It helps maintain the resting potential of cells and facilitates transport of nutrients and other molecules across cell membranes. This pump's activity is critical for nerve impulse transmission muscle contraction and kidney function tying it to several essential physiological processes. |
| **Pathways** | The Na+/K+ ATPase plays a role in key pathways like the cardiac contractility pathway and the neural activity pathway. In the cardiac contractility pathway it influences heart muscle contraction and is functionally related to proteins such as phospholamban and SERCA. In neural activity it helps generate action potentials and is closely related to the function of voltage-gated sodium channels. |
| **Associated diseases and disorders** | Mutations or malfunctions in the Na+/K+ ATPase can relate to conditions like familial hemiplegic migraine and cardiac arrhythmias. In familial hemiplegic migraine changes in ATP1A2 have been implicated influencing ion homeostasis in neurons. In cardiac arrhythmias ATP1A1 has connections to abnormal ion |

gradients affecting the rhythm of heartbeats and linking it to other proteins involved in cardiac excitability.

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

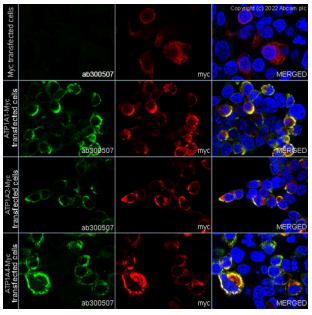
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

## 16 product images



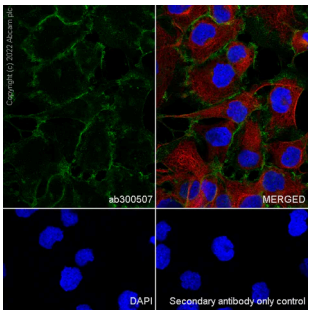
### Immunocytochemistry/ Immunofluorescence - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249]-BSA&Azide free (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Immunocytochemistry/ Immunofluorescence staining of HEK293T (human embryonic kidney epithelial cell) using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HEK293T (human embryonic kidney epithelial cell) cells labelling ATP1A1+ATP1A2+ATP1A3+ATP1A4 with ab300507 at 1/500 (1.076 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2ug/mL dilution (Green). Confocal image showing cytoplasmic and membranous staining in HEK-293T cells transfected with human ATP1A1 or ATP1A2 or ATP1A4 expression vector containing a myc tag. is

observed. Myc-Tag Mouse mAb (Alexa Fluor® 647) was used to counterstain tubulin at 1/100 0.38ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2ug/mL dilution.

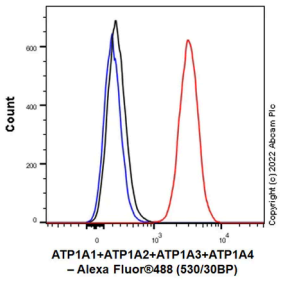



## Immunocytochemistry/ Immunofluorescence - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249]-BSA&Azide free (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Immunocytochemistry/ Immunofluorescence staining of A-172 (human brain glioblastoma) using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilized A-172 (human brain glioblastoma) cells labelling ATP1A1+ATP1A2+ATP1A3+ATP1A4 with ab300507 at 1/50 (10.76 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2ug/mL dilution (Green). Confocal image showing membranous and weak cytoplasmic staining in A-172 cell line is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue).

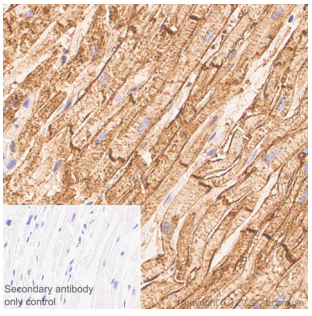
Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2ug/mL dilution.




## Flow Cytometry (Intracellular) - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249]-BSA&Azide free (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Flow Cytometry (Intracellular) staining using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation. Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized A-172 (human brain glioblastoma) cells labelling ATP1A1+ATP1A2+ATP1A3+ATP1A4 with ab300507 at 1/500 dilution (0.1ug) (Red) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.




## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249] (BSA and Azide free) (ab300508)

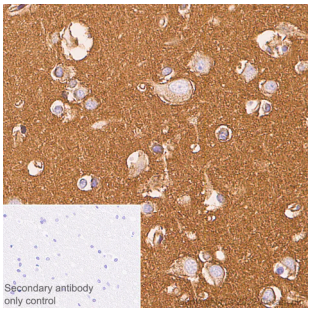
Sodium/potassium-transporting ATPase (pan alpha subunit) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human cardiac muscle using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human cardiac muscle tissue labeling ATP1A1+ATP1A2+ATP1A3+ATP1A4 with ab300507 at 1/5000 (0.108 ug/ml) followed by a ready to use LeicaDS9800 (Bond☒ Polymer Refine Detection) was used. Positive staining on human cardiac muscle, particularly on the intercalated discs (PMID: 26109061).The section was incubated with ab300507 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond☒ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins

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Sodium/potassium-transporting ATPase (pan alpha subunit) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human cerebrum using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling ATP1A1+ATP1A2+ATP1A3+ATP1A4 with ab300507 at 1/5000 (0.108 ug/ml) followed by a ready to use LeicaDS9800 (Bond☒ Polymer Refine Detection) was used. Positive staining on human cerebrum.The section was incubated with ab300507 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

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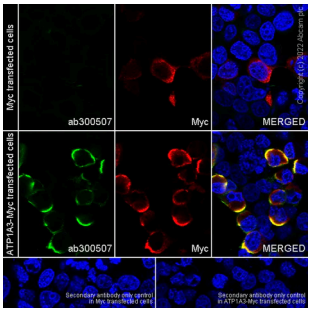


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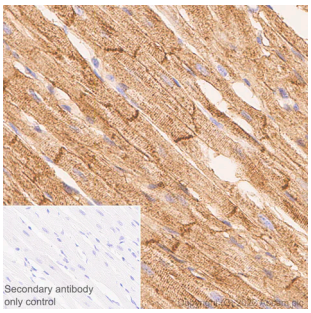


## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249] (BSA and Azide free) (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat cardiac muscle using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Rat cardiac muscle tissue labeling ATP1A1+ATP1A2+ATP1A3+ATP1A4 with ab300507 at 1/5000 (0.108 ug/ml) followed by a ready to use LeicaDS9800 (Bond® Polymer Refine Detection) was used. Positive staining on rat cardiac muscle, particularly on the intercalated discs. The section was incubated with ab300507 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

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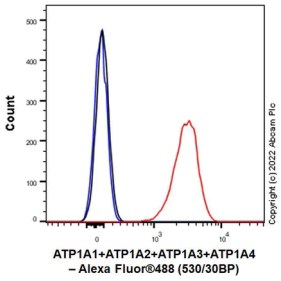
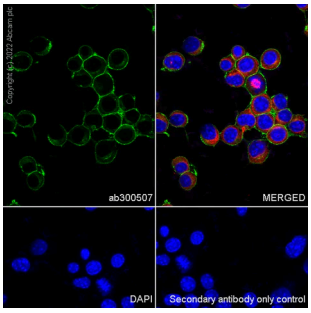



## Flow Cytometry (Intracellular) - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249]-BSA&Azide free (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Flow Cytometry (Intracellular) staining using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation. Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Neuro-2a (mouse neuroblastoma neuroblast) cells labelling ATP1A1+ATP1A2+ATP1A3+ATP1A4 with ab300507 at 1/500 dilution (0.1ug) (Red) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.




## Immunocytochemistry/ Immunofluorescence - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249]-BSA&Azide free (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Immunocytochemistry/ Immunofluorescence staining of Neuro-2a (mouse neuroblastoma neuroblast) using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

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ab300507 at 1/50 (10.76 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2ug/mL dilution (Green). Confocal image showing membrane and weak cytoplasm staining in Neuro-2a cell line is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue).

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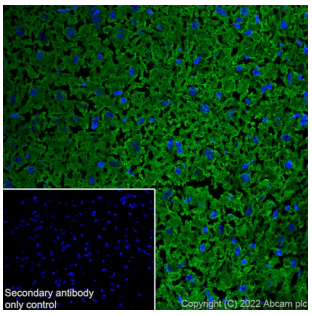
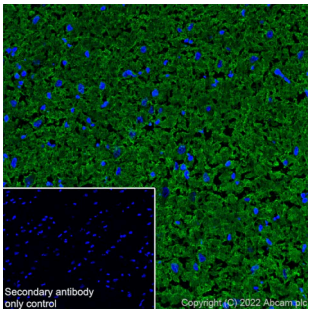



## Immunohistochemistry (Frozen sections) - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249]-BSA&Azide free (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Immunohistochemistry (Frozen sections) staining of Mouse cerebrum (fresh) using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse cerebrum (fresh) tissue labeling ATP1A1+ATP1A2+ATP1A3+ATP1A4 with ab300507 at 1/500 (1.076 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution (Green). Positive staining on mouse cerebrum is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution.

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Sodium/potassium-transporting ATPase (pan alpha subunit) Immunohistochemistry (Frozen sections) staining of Rat cerebrum (fresh) using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

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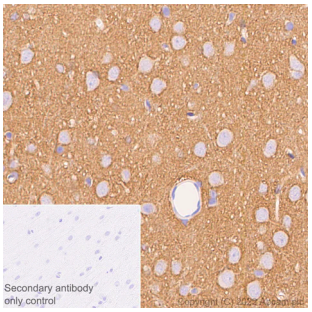


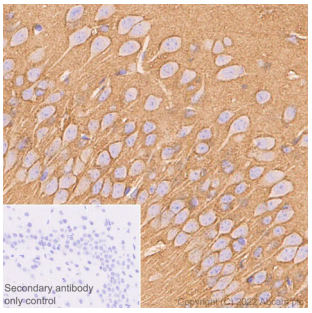

## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249] (BSA and Azide free) (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of rat cerebrum using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling ATP1A1+ATP1A2+ATP1A3+ATP1A4 with ab300507 at 1/5000 (0.108 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Positive staining on rat cerebrum. The section was incubated with ab300507 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



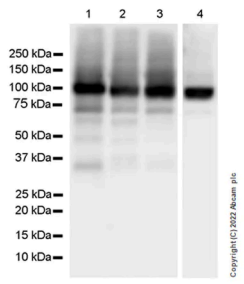

## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249] (BSA and Azide free) (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse cerebrum using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling ATP1A1+ATP1A2+ATP1A3+ATP1A4 with ab300507 at 1/5000 (0.108 ug/ml) followed by a ready to use LeicaDS9800 (Bond☒ Polymer Refine Detection) was used. Positive staining on mouse cerebrum (PMID: 32301109).The section was incubated with ab300507 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond☒ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins




## Western blot - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249]-BSA&Azide free (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Western blot staining using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation. The samples are unboiled. Blocking Buffer and concentration: 5% NFDM/TBST
All lanes:

Western blot - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249] (ab300507) at 1/5000 dilution

Lane 1:
Human cerebellum tissue lysate

Lane 2:
Mouse brain tissue lysate

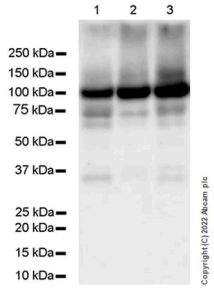
Lane 3:
Rat brain tissue lysate

Lane 4:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 110 kDa




## Western blot - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249]-BSA&Azide free (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Western blot staining using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation. The samples are unboiled. Blocking Buffer and concentration: 5% NFDM/TBST
All lanes:
Western blot - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249] (ab300507) at 1/1000 dilution

Lane 1:
A-172 (human brain glioblastoma ) whole cell lysate

Lane 2:
SH-SY5Y (human neuroblastoma epithelial cell) whole cell lysate

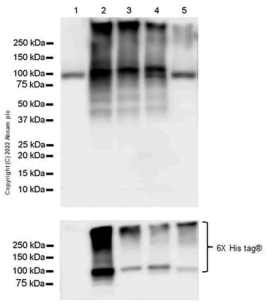
Lane 3:
U-87 MG (human glioblastoma-astrocytoma epithelial cell) whole cell lysate

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 110 kDa

Exposure time: 48s




# Western blot - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249]-BSA&Azide free (ab300508)

Sodium/potassium-transporting ATPase (pan alpha subunit) Western blot staining using rabbit Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody

This data was developed using ab300507, the same antibody clone in a different buffer formulation. The samples are unboiled. Bands above 110 kDa are aggregates of Na+/K+-ATPase alpha subunits. Blocking Buffer and concentration: 5% NFDM/TBST
All lanes:
Western blot - Anti-Sodium/potassium-transporting ATPase (pan alpha subunit) antibody [EPR25414-249] (ab300507) at 1/1000 dilution

Lane 1:
HEK-293 (human embryonic kidney) transfected with an empty vector (vector control), containi a myc-His-tag®, whole cell lysate 10

Lane 2:
HEK-293 transfected with ATP1A1 (WT) expression vector containi a myc-His-tag®, whole cell lysate 10

Lane 3:
HEK-293 transfected with ATP1A2 (WT) expression vector containi a myc-His-tag®, whole cell lysate 10

Lane 4:
HEK-293 transfected with ATP1A3 (WT) expression vector containi a myc-His-tag®, whole cell lysate 10

Lane 5:
HEK-293 transfected with ATP1A4 (WT) expression vector containi a myc-His-tag®, whole cell lysate 10

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 110 kDa

Exposure time: 3s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.