abcam

ab227050

Anti-Vasopressin antibody [EPR20602] - BSA and 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	EPR20602
Purification technique	Affinity purification Protein A
Specificity	In WB, FC and IP we detected Vasopressin only in overexpressing cells. We have not tested human IHC-P as there are no suitable positive human tissues.
Concentration	0.978 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

Expected

Species	Rat, Mouse, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

WB

Tested

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

Expected

Species	Mouse, Rat, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Rat
Dilution info	-
Notes	Perform heat mediated antigen retrieval by using sodium citrate buffer (pH6.0).

Species	Mouse
Dilution info	-
Notes	Perform heat mediated antigen retrieval by using sodium citrate buffer (pH6.0).

Expected

Species	Human
Dilution info	-
Notes	Perform heat mediated antigen retrieval by using sodium citrate buffer (pH6.0).

Not recommended

Species	Transfected cell lysate - Human, Transfected cell line - Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Transfected cell line - Human
Dilution info	-
Notes	-

Expected

Species	Rat, Mouse, Human
Dilution info	Use at an assay dependent concentration.

Notes	-

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Rat, Mouse
Dilution info	-
Notes	-

Expected

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

Not recommended

Species	Transfected cell lysate - Human, Transfected cell line - Human
Dilution info	-
Notes	-

Target data

See full target information Vasopressin-neurophysin 2-copeptin

Function	Arg-vasopressin. Has a direct antidiuretic action on the kidney, it also causes vasoconstriction of the peripheral vessels. Acts by binding to vasopressin receptors (V1bR/AVPR1B, V1aR/AVPR1A, and V2R/AVPR2). Neurophysin 2. Specifically binds vasopressin.

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

ab227050 is the carrier-free version of ab213708.

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.

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.

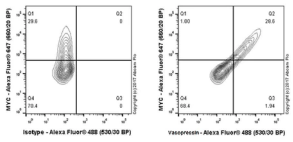
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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6 product images

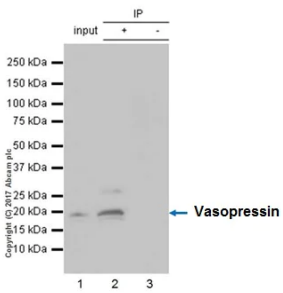


Flow Cytometry (Intracellular) - Anti-Vasopressin antibody [EPR20602] - BSA and Azide free (ab227050)

Vasopressin Flow Cytometry (Intracellular) staining using rabbit Anti-Vasopressin antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with Vasopressin expression vector containing a myc-His-tag® cell line labeling Vasopressin with ab213708 at 1/500 dilution (right panel) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (ab172730) (left panel). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) at 1/2000 dilution was used as the secondary antibody.
Co-stained with Alexa Fluor® 647 conjugated Myc-tag (Y-axis). Only Myc (+) population showed Vasopressin positive staining.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab213708).



Immunoprecipitation - Anti-Vasopressin antibody [EPR20602] - BSA and Azide free (ab227050)

Vasopressin was immunoprecipitated from 0.35 mg of HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with Vasopressin expression vector containing a myc-His-tag®, whole cell lysate with ab213708 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab213708 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.
Lane 1: HEK-293T transfected with Vasopressin expression vector containing a myc-His-tag®, whole cell lysate 10 µg (Input).

Lane 2: ab213708 IP in HEK-293T transfected with Vasopressin expression vector containing a myc-His-tag®, whole cell lysate.

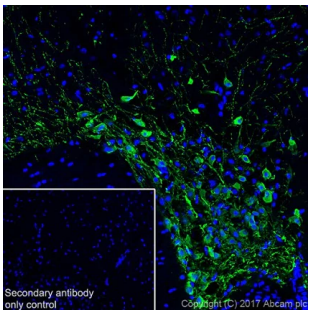
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab213708 in HEK-293T transfected with Vasopressin expression vector containing a myc-His-tag®, whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab213708).
All lanes:
Immunoprecipitation - Anti-Vasopressin antibody [EPR20602] (ab213708)

Predicted band size: 17 kDa



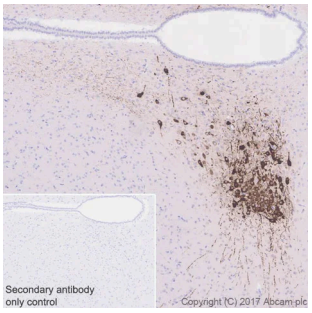
Immunohistochemistry (Frozen sections) - Anti-Vasopressin antibody [EPR20602] - BSA and Azide free (ab227050)

Vasopressin Immunohistochemistry (Frozen sections) staining using rabbit Anti-Vasopressin antibody

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen rat brain tissue labeling Vasopressin with ab213708 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Positive cytoplasmic staining in the neurons of paraventricular nucleus on rat brain tissue section is observed.
The nuclear counter stain is DAPI (blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab213708).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vasopressin antibody [EPR20602] - BSA and Azide free (ab227050)

Vasopressin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Vasopressin antibody

Immunohistochemical analysis of paraffin-embedded rat hypothalamus tissue labeling Vasopressin with ab213708 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining on neurons of rat paraventricular nucleus (PMID: 22822466, PMID: 17437647, PMID: 18773953). Counter stained with hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab213708).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



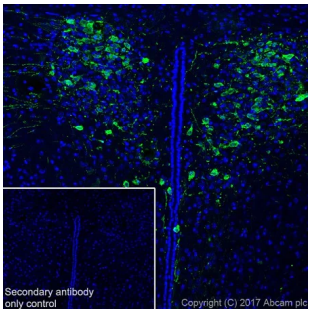
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vasopressin antibody [EPR20602] - BSA and Azide free (ab227050)

Vasopressin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Vasopressin antibody

Immunohistochemical analysis of paraffin-embedded mouse hypothalamus tissue labeling Vasopressin with ab213708 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining on neurons of mouse paraventricular nucleus (PMID: 22822466, PMID: 17437647, PMID: 18773953). Counter stained with hematoxylin.
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Immunohistochemistry (Frozen sections) - Anti-Vasopressin antibody [EPR20602] - BSA and Azide free (ab227050)

Vasopressin Immunohistochemistry (Frozen sections) staining using rabbit Anti-Vasopressin antibody

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen mouse brain tissue labeling Vasopressin with ab213708 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Positive cytoplasmic staining in the neurons of paraventricular nucleus on mouse brain tissue section is observed.
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