abcam

ab213708

Anti-Vasopressin antibody [EPR20602]

Anti-Vasopressin antibody [EPR20602] (ab213708) is a rabbit monoclonal antibody detecting Vasopressin in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, IHC-Fr**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
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	0.62 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	1/30
Notes	-

Expected

Species	Mouse
Dilution info	-
Notes	-

Species	Rat
Dilution info	-
Notes	-

Species	Human
Dilution info	1/30
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

WB

Tested

Species	Transfected cell lysate - Human
Dilution info	1/1000
Notes	-

Expected

Species	Mouse
Dilution info	-

Notes	-

Species	Rat
Dilution info	-
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/500
Notes	Perform heat mediated antigen retrieval by using sodium citrate buffer (pH6.0). Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/500
Notes	Perform heat mediated antigen retrieval by using sodium citrate buffer (pH6.0). Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Expected

Species	Human
Dilution info	1/500
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	1/500
Notes	-

Expected

Species	Mouse
Dilution info	-
Notes	-

Species	Rat
Dilution info	-
Notes	-

Species	Human
Dilution info	1/500
Notes	-

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Expected

Species	Human
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks

Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-Vasopressin antibody [EPR20602] (ab213708) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr) in Human, Mouse, Rat samples.

What is the molecular weight of Vasopressin?
Anti-Vasopressin [EPR20602] (ab213708) specifically detects a band for Vasopressin (UniProt: P35455) at a molecular weight of 17kDa.

Other related products
We have a range of other formats of antibody clone [EPR20602] also available for your convenience: ab213708, Carrier free - ab227050, Alkaline Phosphatase - ab308917, Alexa Fluor® 488 - ab309843, Alexa Fluor® 647 - ab310210, Alexa Fluor® 594 - ab310655, Alexa Fluor® 555 - ab312185, Alexa Fluor® 568 - ab312672, Alexa Fluor® 750 - ab321374

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.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

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.

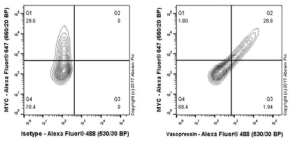
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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:
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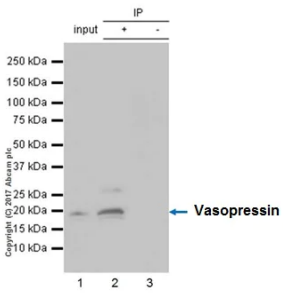
7 product images



Flow Cytometry (Intracellular) - Anti-Vasopressin antibody [EPR20602] (ab213708)

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 withVasopressin 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.



Immunoprecipitation - Anti-Vasopressin antibody [EPR20602] (ab213708)

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 1/10,000 dilution
Lane 1: HEK-293T transfected with Vasopressin expression vector containing a myc-His-tag®, whole cell lysate 10 µg (Input).

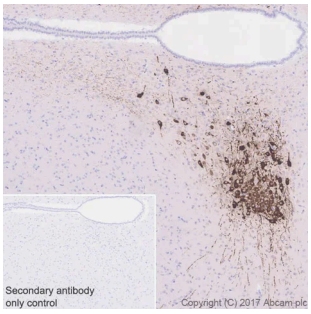
Lane 2: ab213708 IP in HEK-293T transfected with Vasopressin expression vector containing a myc-His-tag®, whole cell lysate.

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.
All lanes:
Immunoprecipitation - Anti-Vasopressin antibody [EPR20602] (ab213708)

Predicted band size: 17 kDa

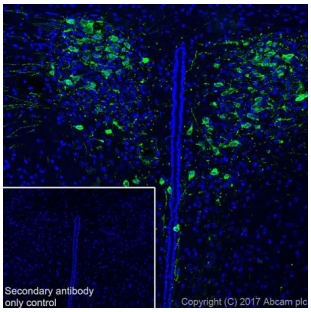


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vasopressin antibody [EPR20602] (ab213708)

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.

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



Immunohistochemistry (Frozen sections) - Anti-Vasopressin antibody [EPR20602] (ab213708)

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.
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.



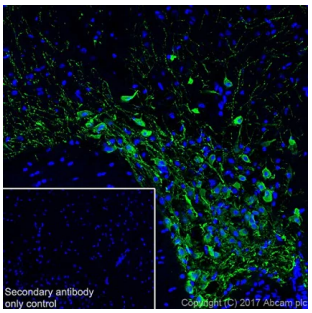
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vasopressin antibody [EPR20602] (ab213708)

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

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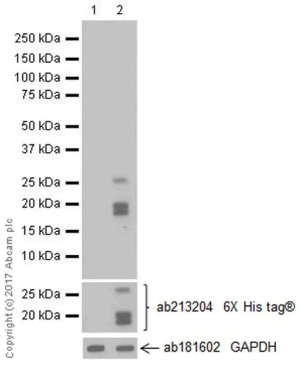


Immunohistochemistry (Frozen sections) - Anti-Vasopressin antibody [EPR20602] (ab213708)

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.



Western blot - Anti-Vasopressin antibody [EPR20602] (ab213708)

Blocking/Dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-Vasopressin antibody [EPR20602] (ab213708) at 1/2000 dilution

Lane 1:
HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with an empty vector (vector control), containing a myc-His-tag®, whole cell lysate at 10 µg

Lane 2:
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 at 10 µg

Secondary

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

Developed using the ECL technique.

Predicted band size: 17 kDa

Exposure time: 1s

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