

Product Datasheet

Aquaporin-2 [p Ser261] Antibody - Azide Free NB100-61100

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 4

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-61100

Updated 9/9/2025 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NB100-61100



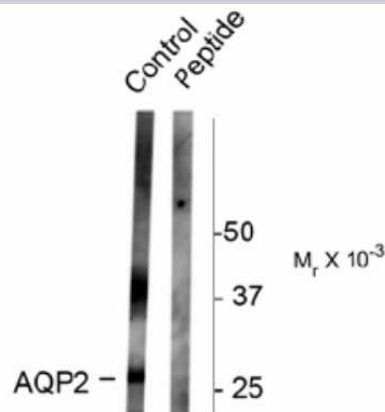
NB100-61100

Aquaporin-2 [p Ser261] Antibody - Azide Free

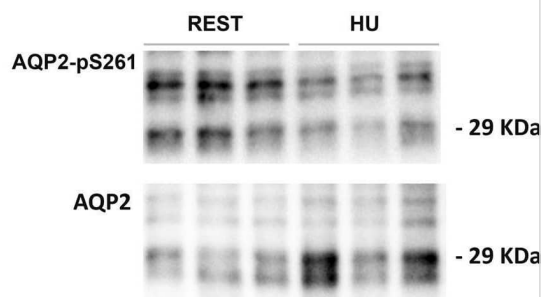
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol
Target Molecular Weight	29 kDa
Product Description	
Description	Novus Biologicals Rabbit Aquaporin-2 [p Ser261] Antibody - Azide Free (NB100-61100) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-Aquaporin-2 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	359
Gene Symbol	AQP2
Species	Human, Mouse, Rat, Canine
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 25977473). Canine reactivity reported in scientific literature (PMID: 22778181).
Specificity/Sensitivity	Specific for endogenous levels of the ~29 kDa Aquaporin-2 protein phosphorylated at Ser261. Also recognizes the glycosylated form of AQP2 at ~37 kDa. Immunolabeling is blocked by preadsorption with the phosphopeptide used as antigen, but not by the corresponding non-phosphopeptide.
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser261 conjugated to KLH. Accession # P34080
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Dot Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:100 , Immunocytochemistry/Immunofluorescence 1:500 - 1:3000, Immunoprecipitation 3 uL, Immunohistochemistry-Paraffin 1:100 , Dot Blot
Application Notes	Immunohistochemistry as reported in the literature (Hoffert et al., 2007) Dot Blot was reported in scientific literature.

Images

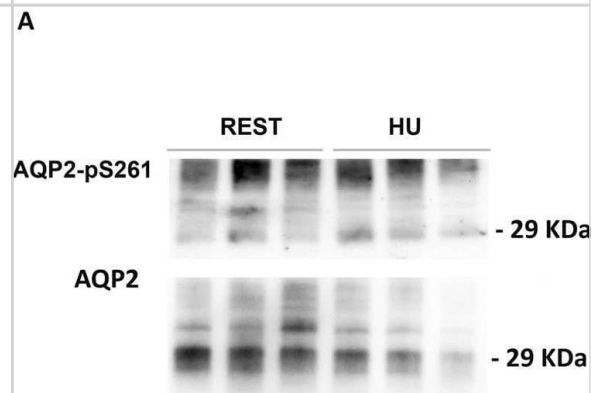
Western Blot: Aquaporin-2 [p Ser261] Antibody [NB100-61100] - Rat kidney lysate showing specific immunolabeling of the ~ 29k and 37k glycosylated form of the AQP2 protein phosphorylated at Ser261. Immunolabeling is blocked by the phospho-peptide used as antigen (peptide) but not by the corresponding dephospho-peptide (not shown).



(A) Expression of AQP2 in 1 week HU and REST mice. Kidneys from HU and REST mice were lysed, and immunoblotting experiments were performed using specific antibodies against total AQP2. Densitometric analysis of total AQP2 bands normalized to the total protein content is reported in the histogram. Data are expressed as mean +/- S.E.M. (O.D.). Statistical analysis was done using Unpaired t-test (* $p < 0.05$). (B) Expression of AQP2 in 1 week HU and REST mice. Kidneys from HU and REST mice were lysed, and immunoblotting experiments were performed using specific antibodies against total AQP2. Densitometric analysis of total AQP2 bands normalized to the total protein content is reported in the histogram. Data are expressed as mean +/- S.E.M. (O.D.). Statistical analysis was done using Unpaired t-test (** $p < 0.01$). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40303591>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



(A) Expression of AQP2-pS261 in 4 weeks HU compared to REST mice. Kidneys from HU and REST mice were lysed, and immunoblotting experiments were performed using specific antibodies against phosphorylated AQP2 in Ser261 and total AQP2. Densitometric analysis of AQP2-pS261 bands normalized to total AQP2 is reported in the histogram. Data are expressed as mean +/- S.E.M. (O.D.). Statistical analysis was done using Unpaired t-test (* $p < 0.05$). (B) Localization of AQP2-pS261 and total AQP2. Immunofluorescence staining of AQP2-pS261, in green (AlexaFluor 488), and total AQP2, in red (AlexaFluor 555), in renal sections of HU and REST mice (scale bar: 5 μ m). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40303591>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Ranieri M, Venneri M, Pellegrino T et al. The Vasopressin Receptor 2 Mutant R137L Linked to the Nephrogenic Syndrome of Inappropriate Antidiuresis (NSIAD) Signals through an Alternative Pathway that Increases AQP2 Membrane Targeting Independently of S256 Phosphorylation Cells 2020-05-29 [PMID: 32486031]

Centrone M, Ranieri M, Di Mise A et al. AQP2 Abundance is Regulated by the E3-Ligase CHIP Via HSP70 Cell. Physiol. Biochem. 2017-11-17 [PMID: 29145196] (IF/IHC)

Ranieri M, Tamma G, Di Mise A et al. Negative feedback from CaSR signaling to Aquaporin-2 confers high sensitivity of vasopressin to extracellular calcium. J. Cell. Sci. 2015-05-14 [PMID: 25977473] (WB, Human)

Trimpert C, van den Berg DT, Fenton RA et al. Vasopressin increases S261 phosphorylation in AQP2-P262L, a mutant in recessive nephrogenic diabetes insipidus Nephrol Dial Transplant 2012-07-09 [PMID: 22778181] (Cytometric Bead Assay Standard, WB, Canine)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB100-61100

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB100-61100

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

