

Product Datasheet

WNK4 Antibody - BSA Free

NB600-284

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NB600-284

WNK4 Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description

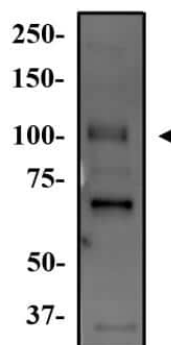
Description	Novus Biologicals Rabbit WNK4 Antibody - BSA Free (NB600-284) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-WNK4 Antibody: Cited in 14 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	65266
Gene Symbol	WNK4
Species	Human, Mouse, Rat
Reactivity Notes	Use in Rat reported in scientific literature (PMID:34448462).
Immunogen	A synthetic peptide made to a region of the human WNK4 protein between residues 200-300. [UniProt# Q96J92]

Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Electron Microscopy, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, ICC/IF (Negative)
Recommended Dilutions	Western Blot 2 ug/ml, Immunohistochemistry, Immunoprecipitation reported in scientific literature (PMID 24434184), Immunohistochemistry-Paraffin reported in scientific literature (PMID 24434184), Immunohistochemistry-Frozen reported in scientific literature, Electron Microscopy reported in scientific literature (PMID 24434184), ICC/IF (Negative)
Application Notes	In Western blot, a band is seen at ~135-155 kDa. It is not useful for Immunocytochemistry/Immunofluorescence.

Images

Western Blot: WNK4 Antibody [NB600-284] - Western Blot Image of anti-WNK4. Whole cell protein from Hek293 was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-WNK4 in 1% milk and detected with an anti-rabbit HRP secondary antibody using chemiluminescence



Publications

- Yang HJ, Kim MJ, Kim SS, Cho YW Melatonin modulates nitric oxide-regulated WNK-SPAK/OSR1-NKCC1 signaling in dorsal raphe nucleus of rats *The Korean journal of physiology & pharmacology : official journal of the Korean Physiological Society and the Korean Society of Pharmacology* 2021-09-01 [PMID: 34448462] (WB, Rat)
- Zhang Y, Ye L, Yuan H, Duan D CFTR plays an important role in the regulation of vascular resistance and high-fructose/salt-diet induced hypertension in mice *Journal of Cystic Fibrosis* 2020-12-01 [PMID: 33279469] (WB, Mouse)
- Roy A, Goodman J H et al. Generation of WNK1 knockout cell lines by CRISPR/Cas-mediated genome editing. *Am J Physiol Renal Physiol* 2015-02-15 [PMID: 25477473] (WB, Human)
- Frame AA, Puleo F, Kim K et al. Sympathetic regulation of the NCC in norepinephrine-evoked salt-sensitive hypertension in Sprague-Dawley rats *Am. J. Physiol. Renal Physiol.* 2019-10-14 [PMID: 31608673] (Rat)
- Li J, Hatano R, Xu S et al. Gender difference in kidney electrolyte transport. I. Role of AT1a receptor in thiazide-sensitive Na⁺-Cl-cotransporter activity and expression in male and female mice. *Am. J. Physiol. Renal Physiol.* 2017-08-01 [PMID: 28566500] (WB, Mouse)
- Kim MJ, Yang HJ, Kim Y et al. Role of nitric oxide and WNK-SPAK/OSR1-KCC2 signaling in daily changes in GABAergic inhibition in the rat dorsal raphe neurons. *Neuropharmacology.* 2018-03-27 [PMID: 29596900] (Rat)
- Bhuiyan M, Song S, Yuan H et al. WNK-Cab39-NKCC1 signaling increases the susceptibility to ischemic brain damage in hypertensive rats. *J Cereb Blood Flow Metab* 2017-01-01 [PMID: 27798271] (WB, Rat)
- Huguet L, Le Dudal M, Livrozet M et al. High frequency and wide range of human kidney papillary crystalline plugs. *Urolithiasis* 2017-12-12 [PMID: 29234857] (IF/IHC, Human)
- Andrukhova O, Smorodchenko A, Egerbacher M et al. FGF23 promotes renal calcium reabsorption through the TRPV5 channel. *EMBO J.* 2014-02-03 [PMID: 24434184] (IP, IHC-P, EM, WB, Mouse)
- Uchida S. Pathophysiological roles of WNK kinases in the kidney *Pflugers Arch* 2010-09-01 [PMID: 20490538] (IF/IHC, Mouse)
- Subramanya AR, Liu J, Ellison DH et al. WNK4 Diverts the Thiazide-sensitive NaCl Cotransporter to the Lysosome Stimulates AP-3 Interaction. *J Biol Chem*;284(27):18471-18480. 2009-01-01 [PMID: 19401467] (WB, Mouse, Human)
- Song, J et al. Regulation of blood pressure, the epithelial sodium channel (ENaC), and other key renal sodium transporters by chronic insulin infusion in rats. *Am J Physiol Renal Physiol*;290(5):F1055-64. 2006-05-01 [PMID: 16303859] (WB, Rat)
- More publications at <http://www.novusbio.com/NB600-284>



Procedures

Serum protocol for WNK4 Antibody (NB600-284)

Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 50 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH₂O and then stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS for 1 hour at room temperature.
6. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-WNK4 primary antibody (NB 600-284) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturer's instructions (Pierce's ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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Products Related to NB600-284

NB820-59661	Mouse Kidney Whole Tissue Lysate (Adult Whole Normal)
NB600-284PEP	WNK4 Antibody Blocking Peptide
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.

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