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PRODUCT DATASHEET

Anti-Aquaporin 2 (Ser264) Antibody

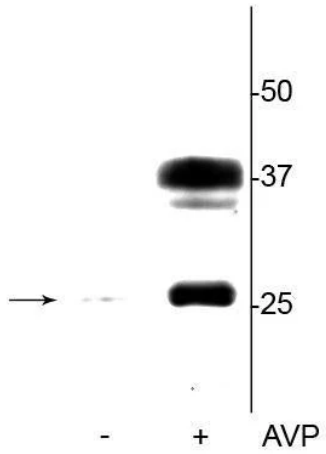
phosphosolutions ANTIBODIES THAT WORK Pooled Serum

Product Details

Available Variants	100 µL (SKU:p112-264) 25 µL (SKU:p112-264t)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	AQP2
Host Species	Rabbit
Format	Antigen Affinity Purified from Pooled Serum
Physical State	Liquid
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Production Notes	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Applications	ELISA, IHC, WB
Dilution Ranges	WB: 1:1000 IHC: 1:100
Species Reactivity	Human, Mouse, Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser264 of rat aquaporin 2, conjugated to keyhole limpet hemocyanin (KLH).
Specificity	Specific for endogenous levels of the ~29 kDa AQP2 protein phosphorylated at Ser264. 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.
Molecular Weight	29/37 kDa
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Antibody Registry ID	AB_2492042
UniProt ID	P34080 UniProt Summary: Forms a water-specific channel that provides the plasma membranes of renal collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient (PubMed:15509592, PubMed:7510718, PubMed:7524315, PubMed:8140421, PubMed:8584435). Plays an essential role in renal water homeostasis (PubMed:15509592, PubMed:7524315, PubMed:8140421). Could also be permeable to glycerol (PubMed:8584435). {ECO:0000269|PubMed:15509592, ECO:0000269|PubMed:7510718, ECO:0000269|PubMed:7524315, ECO:0000269|PubMed:8140421, ECO:0000269|PubMed:8584435}.
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Expected Reactivity	Bovine, Canine, Chicken, Non-Human Primate
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser264
NCBI Gene ID	25386

Product Images



Western blot of rat kidney lysate showing specific immunolabeling of the ~29 kDa and 37 kDa glycosylated form of the AQP2 protein phosphorylated at Ser264 in the vasopressin (AVP) treated lane (+), but not in the control lane (-).



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