

Anti-Aquaporin 2 (Ser264) Antibody

Our Anti-Aquaporin 2 (Ser264) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutio Catalog # AN1313

Product Information

Application WB, IHC
Primary Accession P34080
Host Rabbit
Clonality Polyclonal
Isotype IgG
Calculated MW 28931

Additional Information

Gene ID 25386

Other Names

ADH water channel antibody, AQP 2 antibody, AQP CD antibody, AQP-2
antibody, AQP-CD antibody, AQP2 antibody, AQP2_HUMAN antibody, AQPCD
antibody, Aquaporin 2 collecting duct antibody, Aquaporin CD antibody,

Aquaporin 2 collecting duct antibody, Aquaporin CD antibody, Aquaporin-2 antibody, Aquaporin-2 antibody, Aquaporin-2 antibody, Aquaporine 2 antibody, Collecting duct water channel protein antibody, MGC34501 antibody, Water channel aquaporin 2 antibody, Water channel protein for renal collecting duct antibody, WCH CD antibody, WCH-CD

antibody, WCHCD antibody

Target/Specificity Aquaporin 2 (AQP2) is a hormonally regulated water channel located in the

renal collecting duct. Mutations in the AQP2 gene cause hereditary nephrogenic diabetes insipidus in humans (Iolascon et al.,2007). A

vasopressin induced cAMP increase results in the phosphorylation of AQP2 at serine-256 and its translocation from the intracellular vesicles to the apical membrane of principal cells (van Balkom et al., 2002). Recently, serine-264 has been identified as a novel phosphorylation site on AQP2 and shown to be regulated by vasopressin thus implicating this site as important in AQP2

trafficking and subcellular distribution (Fenton RA et al., 2008).

Dilution WB~~1:1000 IHC~~1:100~500

Format Antigen Affinity Purified from Pooled Serum

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions Anti-Aquaporin 2 (Ser264) Antibody is for research use only and not for use in

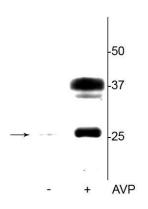
diagnostic or therapeutic procedures.

Shipping Blue Ice

Background

Aquaporin 2 (AQP2) is a hormonally regulated water channel located in the renal collecting duct. Mutations in the AQP2 gene cause hereditary nephrogenic diabetes insipidus in humans (Iolascon et al.,2007). A vasopressin induced cAMP increase results in the phosphorylation of AQP2 at serine-256 and its translocation from the intracellular vesicles to the apical membrane of principal cells (van Balkom et al., 2002). Recently, serine-264 has been identified as a novel phosphorylation site on AQP2 and shown to be regulated by vasopressin thus implicating this site as important in AQP2 trafficking and subcellular distribution (Fenton RA et al., 2008).

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 (-).

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