AQP2 (Ser269) Antibody

Subcategory: Rabbit Polyclonal Antibody, Phosphospecific Antibody
Cat. No.: 252523
Unit: 0.1 ml

Description:
Aquaporin-2 (AQP-2) 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. It is expressed in the renal collecting tubules. Defects in AQP-2 are a cause of autosomal recessive nephrogenic diabetes insipidus (ANDI), also known as diabetes insipidus nephrogenic type 2. It is characterized by excessive water drinking (polydypsia) and urine excretion (polyuria). AQP-2 belongs to the MIP/aquaporin (TC1.A.8) family. Serine-269 has been identified as a vasopressin-mediated phosphorylation site on AQP2 and as such has shown to potentiate plasma membrane retention of AQP2.

Isotype: Rabbit Ig
Applications: E, WB
Species Reactivity: B, D, M
Format: Each vial contains 0.1 ml IgG in HEPES pH7.5, 150 mM NaCl, 0.01% BSA and 50% glycerol. Antibody was purified by immunogen affinity chromatography.
Alternate Names: Aquaporin-2; AQP2; Aquaporin protein-2; AQP-2; Aquaporin-CD; AQP-CD; Water channel protein for renal collecting duct; ADH water channel; Collecting duct water channel protein; WCH-CD
Accession No.: P34080

Antigen: KLH-conjugated synthetic phosphopeptide encompassing a sequence surrounding Ser264 of human AQP2.
Application Notes: E: 1:1,000; WB: 1:1,000

Storage: Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.