Polyclonal Anti-Aquaporin1, *AQP1* (Sepharose Bead Conjugate)

Catalogue No. PA1010-S

Lot No. 03A01

Ig type: rabbit IgG

Size: 100μg/vial

Specificity

Human, mouse, rat. No cross reactivity with other proteins.

Recommended application

Immunoprecipitation(IP)

Immunogen

A synthetic peptide corresponding to a sequence mapping near the C-terminal of human AQP1, identical to the related mouse sequence.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN_3a_3 preservative.

Storage

Store at 4˚C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

Aquaporin 1 is a 28-kD integral protein thought at first to be a breakdown product of the Rh polypeptide but was later shown to be a unique molecule that is abundant in erythrocytes and renal tubules.AQP1 is also expressed by the choroid plexus and various other tissues. It forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient.

REFERENCE

1. Denker, B. M.; Smith, B. L.; Kuhajda, F. P.; Agre, P. : Identification, purification, and partial characterization of a novel M(r) 28,000 integral membrane protein from erythrocytes and renal tubules. *J. Biol. Chem.* 263: 15634-15642, 1988. 2. Thiagarajah, J. R.; Verkman, A. S. : Aquaporin deletion in mice reduces corneal water permeability and delays restoration of transparency after swelling. *J. Biol. Chem.* 277: 19139-19144, 2002.

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