



Product Information Sheet

Polyclonal Anti-Aquaporin1, AQP1(Magnetic Bead Conjugate)

Catalogue No. PA1010-M

Immunogen

Lot No. 03A01

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

Ig type: rabbit IgG

Purity

Immunogen affinity purified.

Size: 100µg/vial

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Storage

Store at 4°C for frequent use.

Recommended application

ImmunoPrecipitation

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

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.