

ARG41535 anti-Aquaporin 1 antibody

Package: 100 µl
Store at: -20°C

Summary

| | |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes Aquaporin 1 |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | ICC/IF, IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | Aquaporin 1 |
| Species | Human |
| Immunogen | Synthetic peptide of Human Aquaporin 1. |
| Conjugation | Un-conjugated |
| Alternate Names | Aquaporin-1; CO; AQP-CHIP; AQP-1; Aquaporin-CHIP; Water channel protein for red blood cells and kidney proximal tubule; CHIP28; Urine water channel |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|----------------|
| | ICC/IF | 1:50 - 1:200 |
| | IHC-P | 1:50 - 1:200 |
| | WB | 1:500 - 1:2000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | Human fetal kidney | |
| Observed Size | ~ 25 kDa | |

Properties

| | |
|---------------------|---|
| Form | Liquid |
| Purification | Affinity purified. |
| Buffer | PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

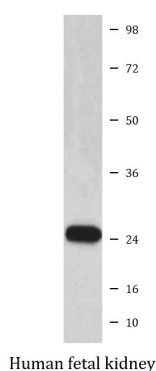
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

| | |
|-----------------------|--|
| Gene Symbol | AQP1 |
| Gene Full Name | aquaporin 1 (Colton blood group) |
| Background | Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). This gene encodes an aquaporin which functions as a molecular water channel protein. It is a homotetramer with 6 bilayer spanning domains and N-glycosylation sites. The protein physically resembles channel proteins and is abundant in erythrocytes and renal tubes. The gene encoding this aquaporin is a possible candidate for disorders involving imbalance in ocular fluid movement. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010] |
| Function | 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. [UniProt] |
| Calculated Mw | 29 kDa |
| Cellular Localization | Cell membrane; Multi-pass membrane protein. [UniProt] |

Images



ARG41535 anti-Aquaporin 1 antibody WB image

Western blot: Human fetal kidney lysate stained with ARG41535 anti-Aquaporin 1 antibody.