Datasheet for ABIN2716313

anti-Aquaporin 1 antibody

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Overview

Quantity:	0.1 mL
Target:	Aquaporin 1 (AQP1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Aquaporin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	Full length human recombinant protein of human AQP1 (NP_932766) produced in HEK293T cell.
Clone:	2D10
Isotype:	IgG1
Characteristics:	Homo sapiens aquaporin 1 (Colton blood group) (AQP1), transcript variant 1
Purification:	Purified from mouse ascites fluids by affinity chromatography

Target Details

Target:	Aquaporin 1 (AQP1)
Alternative Name:	AQP1 (AQP1 Products)

Target Details

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.
Molecular Weight:	28.3 kDa
Gene ID:	358
NCBI Accession:	NM_198098
HGNC:	358
Pathways:	Hormone Transport

Application Details

Application Notes:	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100
Comment:	The concentration of the product may vary between diferrent lots.
Restrictions:	For Research Use only

Handling

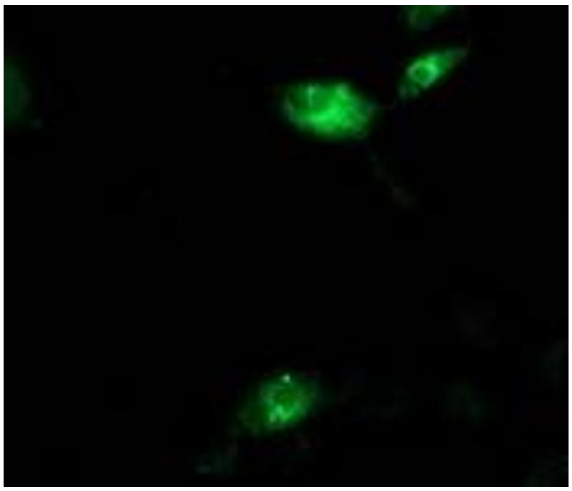
Format:	Liquid
Concentration:	0.5-1.0 mg/mL
Buffer:	PBS (PH 7.3) containing 1 % BSA, 50 % glycerol and 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Publications

Product cited in:	Zhang, He, Chen, Pan, Du, Zang, Wang, Tang, Li, Lu, Yao, Jin, Ma: "Chemotherapy enhances tumor vascularization via Notch signaling-mediated formation of tumor-derived endothelium in

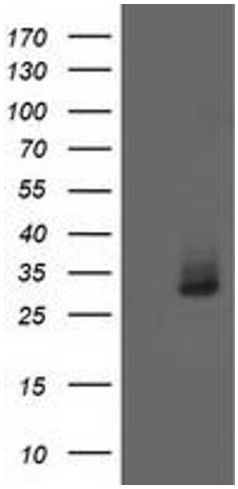
breast cancer." in: **Biochemical pharmacology**, Vol. 118, pp. 18-30, (2016) (PubMed).

Images



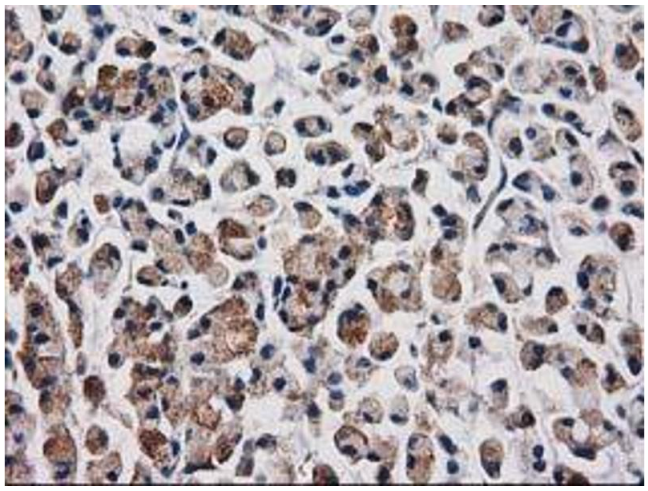
Immunofluorescence

Image 1. Anti-AQP1 mouse monoclonal antibody (ABIN2454186) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY AQP1 (RC205304).



Western Blotting

Image 2. HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY AQP1 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 µg per lane) were separated by SDS-PAGE and immunoblotted with anti-AQP1.



Immunohistochemistry

Image 3. Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-AQP1 mouse monoclonal antibody. (ABIN2454186)