

Datasheet for ABIN2486367

anti-AQP2 antibody (C-Term) (Atto 390)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	AQP2
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AQP2 antibody is conjugated to Atto 390
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Produced against the C-terminal peptide (Sequence N-CLKGLEPDTDWEEREVRRRQ) of rat aquaporin 2
Specificity:	Detects ~28.8 kDa. May detect larger glycosylated bands ~35-50 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein A Purified

Target Details

Target:	AQP2
Alternative Name:	Aquaporin 2 (AQP2 Products)

Target Details

Background:	Aquaporins selectively conduct water molecules in and out of the cell, while preventing the passage of ions and other solutes. Known as water channels, they are integral membrane pore proteins (1, 2). Aquaporin 2 is the vasopressin-regulated water channel of the apical membrane of collecting duct cells. It is located in kidney epithelial cells and usually lies dormant in intracellular vesicle membranes. When it is needed vasopressin binds to the cell surface vasopressin receptor, activating a signaling pathway that cause AQP2 containing vesicles to fuse with the plasma membrane so the AQP2 can be used by the cell (3). Defects in AQP2 area cause of an autosomal dominant form of nephrogenic diabetes insipidus (NDI) (4).
Gene ID:	25386
NCBI Accession:	NP_037041
UniProt:	P34080
Pathways:	Response to Water Deprivation

Application Details

Application Notes:	• WB (1:2000) • IHC (1:200) • ICC/IF (1:400) • optimal dilutions for assays should be determined by the user.
Comment:	0.5 µg/ml of ABIN2486367 was sufficient for detection of aquaporin 2 in 10 µg of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

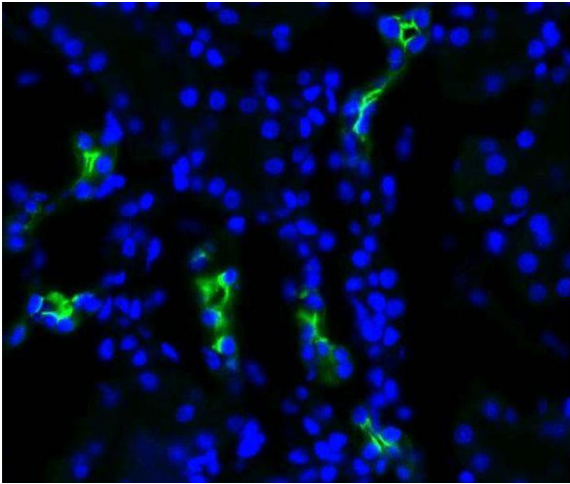
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
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:	4 °C

Handling

Storage Comment: Conjugated antibodies should be stored at 4°C

Images

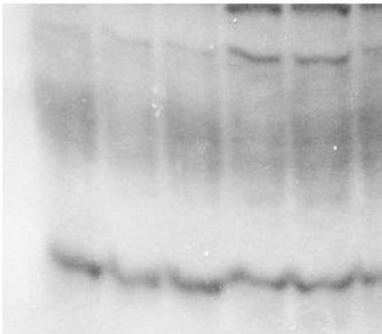


Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-Aquaporin 2 Polyclonal Antibody . Tissue: kidney tissue. Species: Rat. Primary Antibody: Rabbit Anti-Aquaporin 2 Polyclonal Antibody at 1:200. Secondary Antibody: FITC Goat Anti-Rabbit (green).

AQP2

35 →
29 →



Western Blotting

Image 2. Western blot analysis of Rat kidney inner medullary homogenates showing detection of Aquaporin 2 protein using Rabbit Anti-Aquaporin 2 Polyclonal Antibody . Primary Antibody: Rabbit Anti-Aquaporin 2 Polyclonal Antibody at 1:2000. Showing glycosylated and non-glycosylated bands.