

## Product datasheet for **TA329022**

### Aqp11 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)SLSLTKYHFDER, corresponding to amino acid residues 140- 151 of rat Aquaporin 11. 2nd extracellular loop.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN <sub>3</sub> .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	aquaporin 11
Database Link:	<a href="#">NP_775128</a> <a href="#">Entrez Gene 66333 Mouse</a> <a href="#">Entrez Gene 286758 Rat</a> <a href="#">Q8CHM1</a>



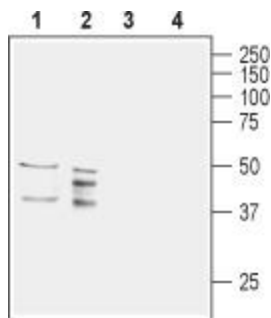
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**Background:**

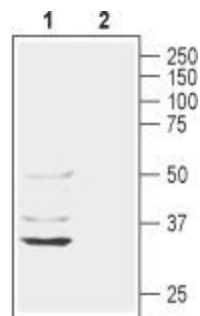
The aquaporins (AQP), also known as the major intrinsic protein superfamily (MIP), are a family of integral membrane proteins. In mammals, 13 aquaporins were described (AQP0 – AQP12). Aquaporin 11 (AQP11) is a newly described member of the aquaporins family. Aquaporin-11 (AQP-11) has been identified with unusual pore-forming NPA (asparagine-proline-alanine) boxes. AQP-11 presents a conserved structure of six transmembrane domains with intracellular N- and C-termini. The functional channel is a tetramer but each subunit has a separate pore and therefore the functional channel unit, contains four pores. There are two subfamilies: the aquaporins, which transport only water and the aquaglyceroporins, which transport glycerol, urea, and other small solutes in addition to water. Aquaporins and aquaglyceroporins are ubiquitously expressed, including in the plasma membrane of renal epithelia, brain astrocytes, and red blood cells. AQP-11 is expressed in several tissues including testis, kidney, liver, and brain. In the brain, AQP11 is found in Purkinje cells, hippocampal neurons of CA1 and CA2, and cerebral cortical neurons. In the kidney AQP-11 has a central role in vesicular homeostasis as demonstrated in experiments using AQP-11 knockout mice which display growth retardation and progressively die before weaning. The cause of death seems to be advanced renal failure.

**Synonyms:**

AQP-11; AQPX1

**Product images:**


Western blot analysis of rat (lanes 1 and 3) and mouse (lanes 2 and 4) brain lysates: 1-2. Anti-Aquaporin 11 (extracellular) antibody, (1:1000). 3-4. Anti-Aquaporin 11 (extracellular) antibody, preincubated with the control peptide antigen.



Western blot analysis of rat liver lysate: 1. Anti-Aquaporin 11 (extracellular) antibody, (1:1000). 2. Anti-Aquaporin 11 (extracellular) antibody, preincubated with the control peptide antigen.