Product datasheet

Anti-AQP3 Antibody

Catalog Number: *A02181*

BOSTER
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Basic Information

Product Name	Anti-AQP3 Antibody
Gene Name	AQP3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of mouse Aquaporin 3, different from the related human sequence by three amino acids, and from the related rat sequence by two amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	32-36 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

This gene encodes the water channel protein aquaporin 3. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein, also known as aquaporin 0. Aquaporin 3 is localized at the basal lateral membranes of collecting duct cells in the kidney. In addition to its water channel function, aquaporin 3 has been found to facilitate the transport of nonionic small solutes such as urea and glycerol, but to a smaller degree. It has been suggested that water channels can be functionally heterogeneous and possess water and solute permeation mechanisms. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.

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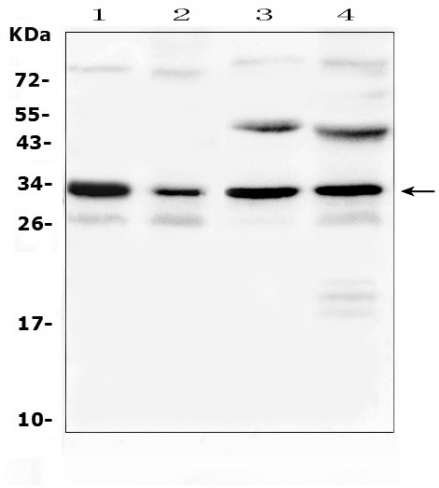
Reference

Anti-AQP3 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of AQP3 using anti-AQP3 antibody (A02181). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: mouse kidney tissue lysates,
Lane 2: mouse brain tissue lysates,
Lane 3: rat kidney tissue lysates,
Lane 4: rat brain tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-AQP3 antigen affinity purified polyclonal antibody (A02181) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for AQP3 at approximately 32-36 kDa. The expected band size for AQP3 is at 32 kDa.