

## Basic Information

Product Name	Anti-AQP11 Antibody
Gene Name	AQP11
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS , 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human AQP11 (35-70aa ARQQLHRPVAHAFVLEFLATFQLCCCTHELQLLSEQ), different from the related mouse sequence by two amino acids, and from the related rat sequence by three amino acids.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	30KD/53KD
Dilution Ratios	Western blot(WB):1:500-2000

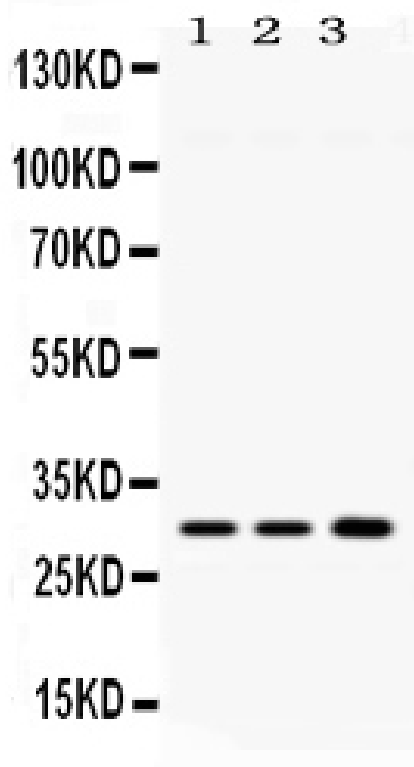
## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

AQP11 has a unique asparagine-proline-alanine (NPA) box distinct from those of other AQPs, suggesting a different pore structure and function. Using Northern blot analysis, they detected highest expression of mouse Aqp11 in testis, followed by liver and kidney. Expression was much weaker in heart, brain, and muscle. Western blot analysis of mouse kidney membrane fractions detected Aqp11 at an apparent molecular mass of 26 kD, lower than the calculated molecular mass of 30 kD. Immunohistochemical analysis localized Aqp11 to mouse renal proximal tubule cells, where it showed a perinuclear distribution. Fluorescence-tagged Aqp11 localized with an endoplasmic reticulum marker.

## Selected Validation Data



Western blot analysis of AQP11 expression in rat brain extract (lane 1), mouse brain extract (lane 2) and HELA whole cell lysates (lane 3). AQP11 at 30KD was detected using rabbit anti AQP11 Antigen Affinity purified polyclonal antibody (Catalog # PB1098) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).