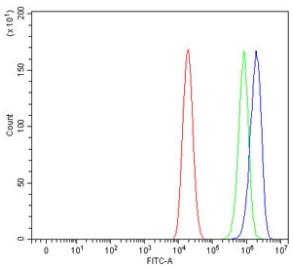
Aquaporin 11 Antibody / AQP11 (RQ7041)

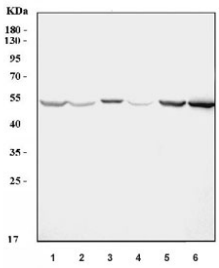
Catalog No.	Formulation	Size
RQ7041	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q8NBQ7
Applications	Western Blot : 0.5-1 ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Aquaporin 11 antibody is available for research use only.



Flow cytometry testing of human Caco-2 cells with Aquaporin 11 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Aquaporin 11 antibody.



Western blot testing of 1) human HepG2, 2) Caco-2, 3) U-2 OS, 4) A549, 5) rat liver and 6) mouse liver tissue lysate with Aquaporin 11 antibody. Predicted molecular weight 26~30 kDa.

Description

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.

Application Notes

Optimal dilution of the Aquaporin 11 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids L30-L57) was used as the immunogen for the Aquaporin 11 antibody.

Storage

After reconstitution, the Aquaporin 11 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.