

RABBIT ANTI-AQUAPORIN 4 AFFINITY PURIFIED POLYCLONAL ANTIBODY

CATALOG NUMBER:	AB3594-200UL
LOT NUMBER:	
QUANTITY:	200 μ L
CONCENTRATION:	0.3 mg/mL (after reconstitution)
SPECIFICITY:	Recognizes Aquaporin 4 (AQP4, WCH4, Mercurial-Insensitive Water Channel).
IMMUNOGEN:	GST fusion protein with residues 249-323 of rat Aquaporin 4 (SwissProt accession number P47863).
APPLICATIONS:	Western blotting: 1:500-1:1,000 using ECL on rat brain membranes. Immunohistochemistry on rat brain sections. Dilutions should be made using a carrier protein such as BSA (1-3%). Optimal working dilutions must be determined by the end user.
CONTROL ANTIGEN:	Included free of charge with the antibody is 120 μ g of control antigen (lyophilized powder). Reconstitute with 100 μ L of PBS. For positive control, in Western blot use 20 ng of protein per Minigel lane. For negative control, preincubate 3 μ g of purified peptide with 1 μ g of antibody for one hour at room temperature. Optimal concentrations must be determined by the end user.
SPECIES REACTIVITIES:	Rat. Reactivity with other species has not yet been tested. It is expected that the antibody may also react with mouse (73/75), bovine (71/75), human (69/75) and rabbit (64/75) due to sequence homology.
FORMAT:	Affinity purified immunoglobulin.
PRESENTATION:	Lyophilized from PBS, pH 7.4, containing 1% BSA, and 0.025% sodium azide. Reconstitute with 200 μ L of sterile distilled water. Centrifuge antibody preparation before use (10,000 x g for 5 min).
STORAGE/HANDLING:	Maintain lyophilized material at -20°C for up to 6 months after date of receipt. After reconstitution maintain at -20°C in undiluted aliquots for up to 6 months. Avoid repeated freeze/thaw cycles.

SUGGESTED WESTERN BLOT PROTOCOL

1. Mix the samples (organ membranes: 50 µg/lane; transfected cells: 500,000 cells/lane) with sample-buffer X 2, and heat 10 min at 70°C.
2. 5-50 µL applied to Minigel lane (0.75-1.5 mm width) and run at standard conditions. (60 mA for 2 1.5 mm Minigel gels, 1.4 h). It is suggested that you run 5-15% acrylamide (37.5:1 acrylamide:bisacrylamide) minigel (1.5 mm width) at 30 mA/gel ~1-1.5 hours.
3. Transfer in semi-dry system under standard conditions (3 h 100 mA for two minigel gels)
4. Stain the transferred bands with Chemicon BLOT-*FastStain* (Catalog Number 2076).
5. Destain with deionized water.
6. Block with 5% non-fat milk (Marvel or Carnation) in PBS, and 0.025 % sodium azide, overnight at 2-8°C. The non-fat milk should be dissolved freshly, centrifuged 10,000 rpm for 10 min, and filtered through glass filter (Gelman Acrodisc).
7. Incubation with first antibody 2 h at room temperature or overnight at 4°C in blocking solution. The antibody preparation should be centrifuged before use (10,000 g 5 min.). Optimal working dilutions and incubation time will need to be determined by the end user.
8. Wash 4 x 10 min. with PBS-0.1% tween 20. From this stage, azide should be omitted.
9. Incubation with the secondary antibody (HRP-conjugated goat anti-rabbit antibody, for example Chemicon Catalog Number AP132P, diluted appropriately) 1 h at room temperature.
10. Wash 4 x 10 min. with PBS-0.1% tween 20.
11. Perform ECL with commercial kits (Chemilucifer, Chemicon Catalog Number 2600).

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