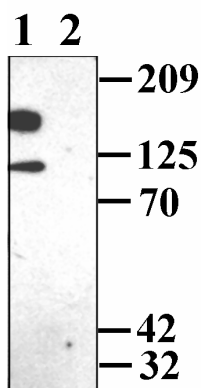


**RABBIT ANTI-Kv2.1, VOLTAGE-GATED POTASSIUM CHANNEL (DRK1)
PURIFIED POLYCLONAL ANTIBODY**

CATALOG NUMBER:	AB5186-200UL
LOT NUMBER:	
QUANTITY:	200 μ L
CONCENTRATION:	1 mg/mL (after reconstitution)
SPECIFICITY:	Recognizes a full length Kv2.1 protein. Does not cross react with any other potassium channel antigens tested so far.
IMMUNOGEN:	Purified peptide from rat Kv2.1 (amino acids 841-857) (Accession P15387).
APPLICATIONS:	Western blot: 1:250-1:500 using ECL on rat brain membranes. Immunohistochemistry using 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 40 μ g of control antigen (lyophilized powder). The stock solution of the antigen can be made up using 100 μ L of sterile deionized water. For negative control, preincubate 1 μ g of 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. It is expected that the antibody will also work in mouse due to sequence homology (17/17) and possibly human or rabbit (15/17). Other species have not been tested.
FORMAT:	Purified immunoglobulin by Protein A.
PRESENTATION:	Lyophilized from phosphate buffered saline, pH 7.4, containing 1% BSA, 5% sucrose as a stabilizer and 0.025% sodium azide as a preservative. Reconstitute with 200 μ L of sterile deionized water. Centrifuge antibody preparation before use (10,000 xg for 5 min).
STORAGE/HANDLING:	Maintain lyophilized material at -20°C for up to 12 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 (Chemiluminescent, Chemicon Catalog Number 2600).



Western blotting of total rat brain membrane proteins (20 µg/lane)

1. AB5186 1:500
2. AB5186 preincubated with control peptide.

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USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209 • Europe +44 (0) 23 8026 2233
Australia +61 3 9839 2000
www.millipore.com