

Anti - Kv4.2 potassium channel Polyclonal

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|-------------------------|--|--------------------------------|---|
| Catalog # | X1038 | Unit Size | 100 ug |
| Host | rabbit | Concentration | 1 mg/ml |
| Immunogen | Kv4.2 peptide -KLH (a.a 23-43) | Buffer | 0.2 μM sterile filtered solution in phosphate buffered saline |
| Isotype | rabbit polyclonal IgG | Positive | Positive |
| Clone | n/a | with 0.08% sodium azide | pH 7.4 |
| Control | transfected HEK293 cells containing Kv4.2 cDNA | Storage | -20°C |
| Negative control | untransfected HEK293 cells | | |

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|---------------------|----------------------------|---------------------------|-----------------|--------------|
| Western Blot | Immunoprecipitation | Immunofluorescence | Paraffin | Other |
| 1:1000 | yes | yes | not tested | not tested |

Species Reactivity

| | | | | |
|--------------|------------|--------------|----------------|--------------|
| Human | Rat | Mouse | Chicken | Other |
| not tested | yes | not tested | not tested | not tested |

Background:

In neurons voltage-dependent potassium channels are key determinants of the resting membrane potential and of membrane excitability, conditioning the frequency, and shape of action potential (1). Potassium channels are encoded by numerous genes whose products can be classified into distinct subfamilies of which the most distinctively characterized is that of the Kv1 shaker class (2) The rabbit anti Kv 4.2 potassium channel antibody recognizes an 80 kDa protein by western blot on rat hippocampal membranes and a protein of 80 kDa in lysates of HEK293 cells (3).

Related Products

| | | |
|--------------------------------------|-----------------|-------------|
| Specificity | Quantity | Cat# |
| rabbit anti Kv 1.4 potassium Channel | 100 ug | X1037 |

References

- (1) Miller, C. (1991) SCIENCE 252,1092-1096
- (2) Chandy, K.G. et. al. (1995) Handbook of receptors and channels: CRC Press: 1-71
- (3) Wwicken, A. D., et. al. (1997) J. Physiol 504,271-286

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