

**Anti - Kv4.2 potassium channel Polyclonal**

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

Western Blot 1:1000	Immunoprecipitation yes	Immunofluorescence yes	Paraffin not tested	Other not tested
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**Species Reactivity**

Human not tested	Rat yes	Mouse not tested	Chicken not tested	Other not tested
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**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	X1038

**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) Wwickenden, A. D., et. al. (1997) J. Physiol 504,271-286

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