

## Product datasheet for **TA328990**

### Kcnq5 Rabbit Polyclonal Antibody

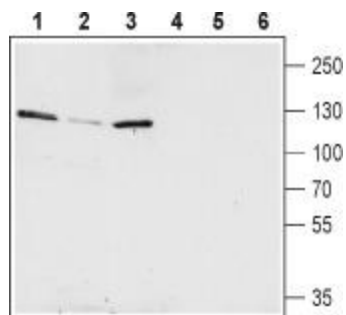
#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)RGSQDFYPKWRESK, corresponding to amino acid residues 856-869 of mouse Kv7.5 . Intracellular, C-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN <sub>3</sub> .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	potassium voltage-gated channel, subfamily Q, member 5
Database Link:	<a href="#">NP_076361</a> <a href="#">Entrez Gene 56479 Human</a> <a href="#">Entrez Gene 259273 Rat</a> <a href="#">Entrez Gene 226922 Mouse</a> <a href="#">Q9JK45</a>
Background:	KCNQ genes encode members of the KV7 K <sup>+</sup> channels. Structurally, the KCNQ family belongs to the six transmembrane domain category of K <sup>+</sup> channels. Five members belong to this family (KV7.1-KV7.5) of which KV7.2 to KV7.5 are expressed in the nervous system <sup>1-3</sup> . KV7.5 is also expressed in visceral smooth muscle <sup>4</sup> and skeletal muscle. These channels form subunits of the low threshold voltage gated K <sup>+</sup> channel. KV7.2 and KV7.3 mostly form heteromers to form the M current. KV7.5 is known to contribute to this current.
Synonyms:	Kv7.5

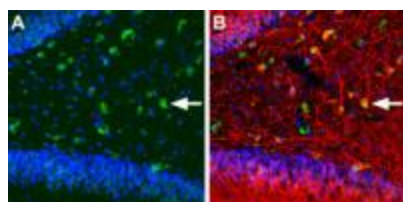


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## Product images:



Western blot analysis of rat hippocampus lysate (lanes 1 and 4), mouse brain lysate (lanes 2 and 5) and rat brain lysate (lanes 3 and 6): 1-3. Anti-Kv7.5 antibody, (1:200). 4-5. Anti-Kv7.5 antibody, preincubated with the control peptide antigen.



Expression of Kv7.5 in rat hippocampus. Immunohistochemical staining of immersion-fixed, free floating rat brain frozen sections using Anti-Kv7.5 antibody, (1:100). A. Kv7.5 (green) is expressed in hilar cells of the hippocampal dentate gyrus. B. Double-staining of Kv7.5 (green) with a neuronal marker ("Milli-Mark" from Millipore, red) reveals partial localization with hilar interneurons (arrow points at an example).