

## Rabbit Anti-phospho-Kv4.2 (Thr607)/AF350 Conjugated antibody

SL20293R-AF350

<b>Product Name</b>	Anti-phospho-Kv4.2 (Thr607)/AF350
<b>Chinese Name</b>	AF350 标记的磷酸化电压门控性钾 Channel proteinKv4.2 抗体
<b>Alias</b>	p-KCND2/Kv4.2(Thr607); p-Kv4.2(Thr607); Potassium voltage-gated channel subfamily D member 2; KCD2; KCND 2; KCND2; KCND2_HUMAN; KIAA1044; Potassium voltage gated channel Shal related subfamily member 2; RK 5; RK5; Voltage gated potassium channel Kv4.2; Voltage gated potassium channel subunit Kv4.2; Voltage sensitive potassium channel; voltage-gated potassium channel Kv4.2; Voltage-gated potassium channel subunit Kv4.2; voltage-sensitive potassium channel.
<b>Product Type</b>	Phosphorylated anti
<b>Research Area</b>	Cardiovascular Neurobiology Channel protein
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Rat(predicted:Human,Mouse,Pig,Cow,Rabbit) IF=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	70kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthesised phosphopeptide derived from human KCND2 around the phosphorylation site of Thr607
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks

at 2-4 °C.

**background:**

Voltage-gated K<sup>+</sup> channels in the plasma membrane control the repolarization and the frequency of action potentials in neurons, muscles, and other excitable cells. Pore-forming (alpha) subunit of voltage-gated rapidly inactivating A-type potassium channels. May contribute to I(To) current in heart and I(Sa) current in neurons. Channel properties are modulated by interactions with other alpha subunits and with regulatory subunits.

**Function:**

Pore-forming (alpha) subunit of voltage-gated rapidly inactivating A-type potassium channels. May contribute to I(To) current in heart and I(Sa) current in neurons. Channel properties are modulated by interactions with other alpha subunits and with regulatory subunits.

**Subunit:**

Homotetramer or heterotetramer with KCND1 and/or KCND3. Interacts with DPP6, DLG4 and NCS1/FREQ (By similarity). Interacts with DLG1. Associates with the regulatory subunits KCNIP1, KCNIP2, KCNIP3 and KCNIP4. Probably part of a complex consisting of KCNIP1, KCNIP2 isoform 3 and KCND2. The KCND2-KCNIP2 channel complex contains four KCND2 and four KCNIP2 subunits. Interacts with FLNA, FLNC and DPP10.

**Product Detail**

**Subcellular Location:**

Cell membrane. Cell projection > dendrite. Detected in dendrites in cultured hippocampal neurons. Association with KCNIP2 probably enhances cell surface expression.

**Tissue Specificity:**

Highly expressed throughout the brain. Expression is very low or absent in other tissues.

**Post-translational modifications:**

Phosphorylated on serine and threonine residues.

**Similarity:**

Belongs to the potassium channel family. D (Shal) (TC 1.A.1.2) subfamily. Kv4.2/KCND2 sub-subfamily.

**Database links:**

[Entrez Gene: 3751](#) Human

[Omicron: 605410](#) Human



[SwissProt: Q9NZV8](#) Human

[Unigene: 654739](#) Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.