



Rabbit Anti-KCND1 antibody

SL6671R

Product Name:	KCND1
Chinese Name:	电压门控钾通道Kv4.1抗体
Alias:	Kcnd1; KCND1_HUMAN; Kv4.1; mShal; Potassium voltage gated channel Shal related subfamily member 1; Potassium voltage gated channel subfamily D member 1; Potassium voltage-gated channel subfamily D member 1; Shal type potassium channel; Voltage gated potassium channel Kv4.1; Voltage gated potassium channel subunit Kv4.1; Voltage-gated potassium channel subunit Kv4.1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	71kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human KCND1/Kv4.1:301-400/647
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 KCND2 and/or KCND3. Associates with the regulatory subunits KCNIP1, KCNIP2, KCNIP3 and KCNIP4. Interacts with DPP10 (Probable).

Subcellular Location:

Membrane; Multi-pass membrane protein. Cell projection, dendrite.

Tissue Specificity:

Widely expressed. Highly expressed in brain, in particular in cerebellum and thalamus; detected at lower levels in the other parts of the brain.

Similarity:

Belongs to the potassium channel family. D (Shal) (TC 1.A.1.2) subfamily. Kv4.1/KCND1 sub-subfamily.

SWISS:

Q9NSA2

Gene ID:

3750

Database links:

[Entrez Gene: 3750](#) Human

[Entrez Gene: 16506](#) Mouse

[Omim: 300281](#) Human

[SwissProt: Q9NSA2](#) Human

[SwissProt: Q03719](#) Mouse

[Unigene: 55276](#) Human

[Unigene: 335968](#) Mouse

Important Note:

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

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