SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-KCNN3 antibody

Catalog Number: SL11569R

FOR RESEARCH USE ONLY

[DATASHEET]

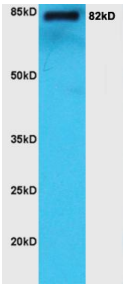
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	KCNN3
Immunogen:	KLH conjugated synthetic peptide derived from human KCNN3: 251-350/736
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, (predicted: Human, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	82kDa
Subcellular Location:	The cell membrane
Background:	Action potentials in vertebrate neurons are followed by an afterhyperpolarization (AHP) that may persist for several seconds and may have profound consequences for the firing pattern of the neuron. Each component of the AHP is kinetically distinct and is mediated by different calcium-activated potassium channels. This gene belongs to the KCNN family of potassium channels. It encodes an integral membrane protein that forms a voltage-independent calcium-activated channel, which is thought to regulate neuronal excitability by contributing to the slow component of synaptic AHP. This gene contains two CAG repeat regions in the coding sequence. It was thought that expansion of one or both of these repeats could lead to an increased susceptibility to schizophrenia or bipolar disorder, but studies indicate that this is probably not the case. Alternatively spliced transcript variants encoding different isoforms have been

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	found for this gene. [provided by RefSeq, Feb 2011] **Function:** Forms a voltage-independent potassium channel activated by intracellular calcium. Activation is followed by membrane hyperpolarization. Thought to regulate neuronal excitability by contributing to the slow component of synaptic afterhyperpolarization. The channel is blocked by apamin. **Subunit:** Heterooligomer. The complex is composed of 4 channel subunits each of which binds to a calmodulin subunit which regulates the channel activity through calcium-binding **Subcellular Location:** Membrane; Multi-pass membrane protein. **Similarity:** Belongs to the potassium channel KCNN family. KCa2.3/KCNN3 subfamily. **Database links:** **Entrez Gene:** 3782 Human **Entrez Gene:** 140493 Mouse **Entrez Gene:** 54263 Rat Omim: 602983 Human **SwissProt:** Q9UGI6 Human **SwissProt:** P58391 Mouse **SwissProt:** P70605 Rat **Unigene:** 490765 Human **Unigene:** 586534 Human **Unigene:** 120250 Mouse **Unigene:** 10840 Rat

[VALIDATION IMAGES]



Sample: Pancreas (Mouse) Lysate at 40 ug
Primary: Anti-KCNN3 (SL11569R) at 1/300 dilution
Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL0295G-HRP) at 1/5000 dilution
Predicted band size: 82 kD
Observed band size: 82 kD

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