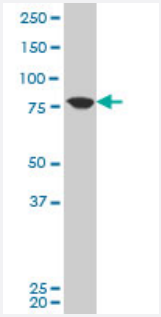
KCNN3 polyclonal antibody (A01)

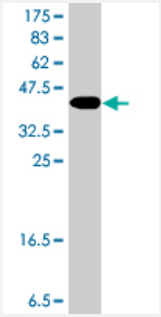
Catalog # H00003782-A01 Size 50 uL

Applications



Western Blot (Cell lysate)

KCNN3 polyclonal antibody (A01), Lot # 050921JC01 Western Blot analysis of KCNN3 expression in Y-79 (Cat # L042V1).



Western Blot detection against Immunogen (38.21 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant KCNN3.
Immunogen	KCNN3 (NP_740752, 301 a.a. ~ 410 a.a) partial recombinant protein with GST tag.
Sequence	QAIHQLRSVKMEQRKLSDQANTLVDLSKMQNVMYDLITELNDRSEDLEKQIGSLESKLEHLTASFN SLPLLIADTLRQQQQQLLSAIIEARGVSVAVGTTHTPISDSPIG
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (93)

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Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (38.21 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

  KCNN3 polyclonal antibody (A01), Lot # 050921JC01 Western Blot analysis of KCNN3 expression in Y-79 (Cat # L042V1).

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

Gene Info — KCNN3

Entrez GeneID	3782
GeneBank Accession#	NM_170782
Protein Accession#	NP_740752
Gene Name	KCNN3
Gene Alias	KCa2.3, SK3, SKCA3, hSK3
Gene Description	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3
Omim ID	602983
Gene Ontology	Hyperlink

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Gene Summary	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. The protein encoded by this gene is activated before membrane hyperpolarization and is thought to regulate neuronal excitability by contributing to the slow component of synaptic AHP. The encoded protein is an integral membrane protein that forms a voltage-independent calcium-activated channel with three other calmodulin-binding subunits. 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. This gene is a member of the KCNN family of potassium channel genes. Two transcript variants encoding two different isoforms have been found for this gene. One of the variants lacks the CAG repeat regions. [provided by RefSeq
Other Designations	OTTHUMP00000035369|OTTHUMP00000042458|OTTHUMP00000042459|small conductance calcium-activated potassium channel protein 3

Publication Reference

- Altered distribution of small-conductance calcium-activated potassium channel SK3 in Hirschsprung's disease.

  Coyle D, O'Donnell AM, Puri P.

  Journal of Pediatric Surgery 2015 Oct; 50(10):1659.

  Application: IF, WB-Ce, Human, Colon sections, aganglionic specimen, ganglionic specimen, myenteric plexus

- Pulmonary hypertension in wild type mice and animals with genetic deficit in KCa2.3 and KCa3.1 channels.

  Wandall-Frostholm C, Skaarup LM, Sadda V, Nielsen G, Hedegaard ER, Mogensen S, Köhler R, Simonsen U.

  PLoS One 2014 May; 9(5):e97687.

  Application: WB-Ti, Mouse, Mouse lungs

Disease

- Anorexia Nervosa
- Atrial Fibrillation
- Atrioventricular Block
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Bipolar Disorder
- Bulimia

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- Ductus Arteriosus
- Genetic Predisposition to Disease
- Infant
- Migraine Disorders
- Myotonic dystrophy
- NARP
- Psychiatric Status Rating Scales
- Psychotic Disorders
- Schizophrenia
- Spinocerebellar ataxia
- Spinocerebellar Ataxias
- Tobacco Use Disorder

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