



Anti-KCNN3 monoclonal antibody (DCABH-12083)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

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.

Immunogen	A synthetic peptide of human KCNN3 is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Buffer	In 1x PBS, pH 7.4

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	KCNN3 potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3 [Homo sapiens]
Official Symbol	KCNN3
Synonyms	KCNN3; potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3; small conductance calcium-activated potassium channel protein 3; hSK3; KCa2.3; SKCA3; SKCa 3; SK3;
Entrez Gene ID	3782
Protein Refseq	NP_001191016
UniProt ID	A0A087WYJ0
Chromosome Location	1q21.3
Pathway	Ca2+ activated K+ channels, organism-specific biosystem; Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem;
Function	calmodulin binding; ion channel activity; potassium channel activity; small conductance calcium-activated potassium channel activity;