



# KCNS3 Monoclonal Antibody

<b>Catalog No</b>	BYmab-05960
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB
<b>Gene Name</b>	KCNS3
<b>Protein Name</b>	Potassium voltage-gated channel subfamily S member 3 (Delayed-rectifier K(+) channel alpha subunit 3) (Voltage-gated potassium channel subunit Kv9.3)
<b>Immunogen</b>	Synthesized peptide derived from human protein . at AA range: 300-380
<b>Specificity</b>	KCNS3 Monoclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	54kD
<b>Cell Pathway</b>	Cell membrane ; Multi-pass membrane protein . May not reach the plasma membrane but remain in an intracellular compartment in the absence of KCNB1 (PubMed:10484328). .
<b>Tissue Specificity</b>	Detected in whole normal term placental and placental chorionic plate arteries and veins. Detected in syncytiotrophoblast and in blood vessel endothelium within intermediate villi and chorionic plate (at protein level) (PubMed:22943705). Detected in most tissues, but not in peripheral blood lymphocytes. The highest levels of expression are in lung (PubMed:10484328).
<b>Function</b>	domain:The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.,function:Potassium channel subunit. Modulates channel activity and reduces the ion flow.,similarity:Belongs to the potassium channel family. S subfamily.,subcellular location:May not reach the plasma membrane but remain in an intracellular compartment in the absence of KCNB1.,subunit:Heteromultimer with KCNB1 and with KCNB2. Does not form homomultimers. Might also bind to

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other channel proteins.,tissue specificity:Detected in most tissues, but not in peripheral blood lymphocytes. The highest levels of expression are in lung.,

**Background**

Voltage-gated potassium channels form the largest and most diversified class of ion channels and are present in both excitable and nonexcitable cells. Their main functions are associated with the regulation of the resting membrane potential and the control of the shape and frequency of action potentials. The alpha subunits are of 2 types: those that are functional by themselves and those that are electrically silent but caMABLE of modulating the activity of specific functional alpha subunits. The protein encoded by this gene is not functional by itself but can form heteromultimers with member 1 and with member 2 (and possibly other members) of the Shab-related subfamily of potassium voltage-gated channel proteins. This gene belongs to the S subfamily of the potassium channel family. Alternatively spliced transcript variants encoding the same protein have been

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

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