

Datasheet for ABIN7581906

anti-KCNE4 antibody (Intracellular)



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Overviev	

Quantity:	50 μL
Target:	KCNE4
Binding Specificity:	AA 56-68, Intracellular
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNE4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to KCNE4 (MiRP3) Subunit
Immunogen:	(C)GYMKSKRREKKSS, corresponding to amino acid residues 56-68 of mouse KCNE4
Sequence:	(C)GYMKSKRREK KSS
Isotype:	IgG
Specificity:	Intracellular, C-terminus
Predicted Reactivity:	Rat,human - identical
Characteristics:	Highly specific antibody directed against an epitope of mouse KCNE4. Anti-KCNE4 (MiRP3) Antibody (ABIN7581906) can be used in western blot analysis. It has been designed to recognize KCNE4 from rat, mouse and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	KCNE4
Alternative Name:	KCNE4 (KCNE4 Products)
Background:	Potassium channel subunit β MiRP3, MinK-related peptide 3, Potassium voltage-gated channe
	subfamily E member 4,The K+ voltage-gated channel subfamily E member (KCNE) family is a
	group of small, non-conducting, single transmembrane domain proteins that associate with
	pore-forming potassium channel subunits to form mixed complexes with unique
	characteristics1. Five different KCNE proteins have been described (KCNE1-5)2. The KCNE
	regulatory subunits are small proteins (14-20 kD) with a type-1 integral membrane topology. It
	is believed that both the cytoplasmic C-terminus tail and the transmembrane domain are
	necessary for the interaction with the $\alpha\text{subunits}1.\text{MinK-related}$ peptides (MiRPs) MiRP3,
	protein encoded by KCNE43. The importance of these proteins to normal physiology of the
	heart and nervous system is exposed by their association with clinical disorders such as
	congenital long QT syndrome, drug-induced cardiac arrhythmias, sensorineural deafness, and
	periodic paralysis4. In addition, MiRPs influence the normal physiology of endocrine and
	exocrine glands, intestinal secretion, and renal excretion. MiRP3 is found to co-localize with
	KV4.2 subunits that contribute to cardiac transient outward K+ currents5. Levels of the KCNE4
	transcript in human cardiac ventricle are robust and increase in patients with congestive failure
	suggesting a regulatory function for MiRP3 in the heart6. In addition to regulating KV4.2, MiRP3
	also regulates KCNQ1 and BK channels2,5.
Gene ID:	57814
UniProt:	Q9WTW3
Application Details	
Application Notes:	Antigen preadsorption control: 1 μg peptide per 1 μg antibody
	Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A
	Application Dilutions Western blot wb: 1:600
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL

Handling

Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature.
	Upon arrival, it should be stored at -20°C.
	Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week.
	For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and
	thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).