10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KCNE3 Antibody (Internal region)

Peptide-affinity purified goat antibody
Catalog # AF3074a

Specification

KCNE3 Antibody (Internal region) - Product Information

Application	**E**
Primary Accession	Q9Y6H6
Other Accession	NP_005463.1, 10008, 57442 (mouse), 63883 (rat)
Predicted	**Human, Mouse, Rat, Pig, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**11710**

KCNE3 Antibody (Internal region) - Additional Information

Gene ID 10008

Other Names
Potassium voltage-gated channel subfamily E member 3, MinK-related peptide 2, Minimum potassium ion channel-related peptide 2, Potassium channel subunit beta MiRP2, KCNE3

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
KCNE3 Antibody (Internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNE3 Antibody (Internal region) - Protein Information

Name KCNE3

Function
Ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel complex of pore-forming alpha subunits. Modulates the gating kinetics and enhances stability of the channel complex. Assembled with KCNB1 modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1 (PubMed:12954870). Associated with KCNC4/Kv3.4 is proposed to form the subthreshold voltage-gated potassium channel in

skeletal muscle and to establish the resting membrane potential (RMP) in muscle cells. Associated with KCNQ1/KCLQT1 may form the intestinal cAMP-stimulated potassium channel involved in chloride secretion that produces a current with nearly instantaneous activation with a linear current- voltage relationship.

Cellular Location
Cell membrane; Single-pass type I membrane protein. Cytoplasm. Perikaryon. Cell projection, dendrite. Membrane raft. Note=Colocalizes with KCNB1 at high- density somatodendritic clusters on the surface of hippocampal neurons

Tissue Location
Expressed in hippocampal neurons (at protein level) (PubMed:12954870). Widely expressed with highest levels in kidney and moderate levels in small intestine.

KCNE3 Antibody (Internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KCNE3 Antibody (Internal region) - Images

KCNE3 Antibody (Internal region) - References

Novel KCNE3 mutation reduces repolarizing potassium current and associated with long QT syndrome. Ohno S, Toyoda F, Zankov DP, Yoshida H, Makiyama T, Tsuji K, Honda T, Obayashi K, Ueyama H, Shimizu W, Miyamoto Y, Kamakura S, Matsuura H, Kita T, Horie M, Human mutation 2009 Apr 30 (4): 557-63. PMID: 19306396