

Product datasheet for AP05142PU-N

CACNG3 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 5 - 10 µg/ml.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
lsotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from the rat calcium channel gamma3 subunit conjugated to KLH
Specificity:	This antibody reacts to CACNG3.
Formulation:	Phosphate buffered saline with 0.08% sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	calcium voltage-gated channel auxiliary subunit gamma 3
Database Link:	<u>Entrez Gene 10368 Human</u> <u>O60359</u>



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

GRIGENE CACNG3 Rabbit Polyclonal Antibody – AP05142PU-N

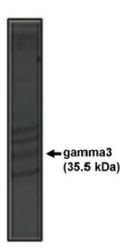
Background:

Voltage-dependent calcium channels (VDCCs) are large (>400 kDa) heteromers which contain, minimally, three core subunits alpha1, alpha2/delta, beta in a 1:1:1 stoichiometry. Expression of VDCC gene products in Xenopus oocytes, or transfected cells shows that the alpha1 subunits contain the ion channel pore while the auxiliary alpha2/delta and beta subunits confer optimal cell surface expression and channel kinetics1. Until recently, the only exception to the above paradigm was the skeletal muscle VDCC, which, in addition to the alpha1, alpha2/delta, beta core motif, also has an additional tightly associated integral membrane glycoprotein subunits of the skeletal muscle VDCC, gamma subunits alter the peak currents, and the kinetics of channel activation and inactivation with the overall effect being a normalisation of currents to those resembling the endogenous channel. Together, these results suggest that gamma 3 subunit is specifically localized in the brain, with the gamma 2 and gamma 4 subunits. It shares >60% sequence homology with the gamma 5 subunits.

Synonyms:

Cacng2

Product images:



Western blot analysis using gamma3 antibody on rat brain lysate.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US