Datasheet for ABIN680608

anti-CACNA1G antibody (AA 901-1000)

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Overview

Quantity:	100 µL
Target:	CACNA1G
Binding Specificity:	AA 901-1000
Reactivity:	Mouse, Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CACNA1G antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CACNA1G/Cav31
Isotype:	IgG
Specificity:	Possible cross-reactivity with CACNA1H and CACNA1I
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	CACNA1G
Alternative Name:	CACNA1G (CACNA1G Products)
Background:	Synonyms: NBR13, Cav3.1, Ca(V)T.1, Voltage-dependent T-type calcium channel subunit alpha-1G, Cav3.1c, Voltage-gated calcium channel subunit alpha Cav3.1, CACNA1G, KIAA1123 Background: Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1G gives rise to T-type calcium currents. T-type calcium channels belong to the "low-voltage activated (LVA)" group and are strongly blocked by mibefradil. A particularity of this type of channel is an opening at quite negative potentials and a voltage-dependent inactivation. T-type channels serve pacemaking functions in both central neurons and cardiac nodal cells and support calcium signaling in secretory cells and vascular smooth muscle. They may also be involved in the modulation of firing patterns of neurons which is important for information processing as well as in cell growth processes.
Gene ID:	8913
UniProt:	O43497

Application Details

Application Notes:	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

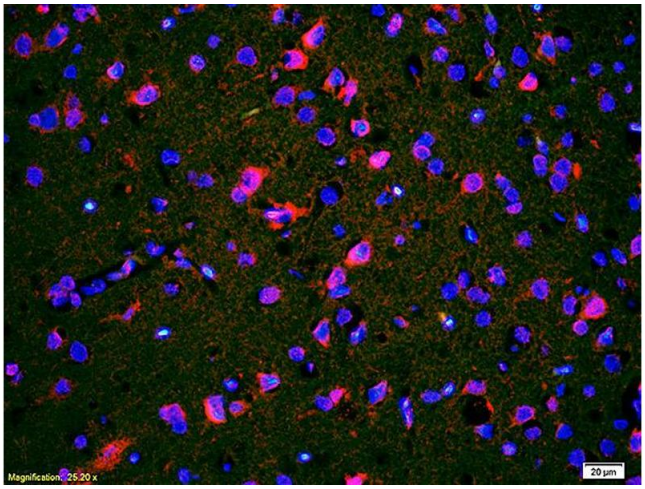
Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

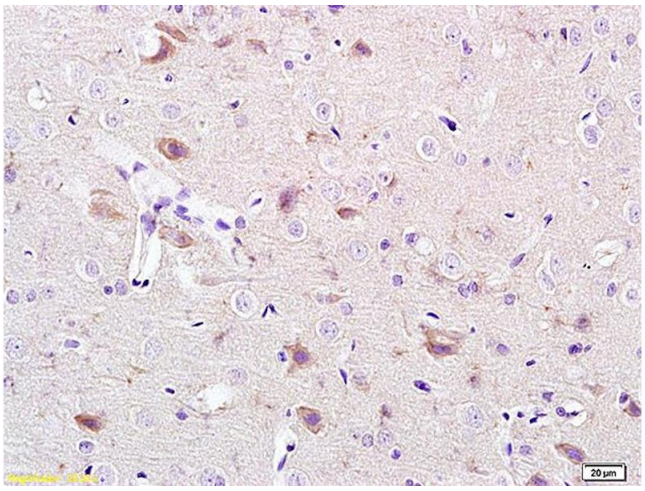
Product cited in:	Lu, Long, Zhou, Xu, Hu, Li: "Mibefradil reduces blood glucose concentration in db/db mice." in: **Clinics (São Paulo, Brazil)**, Vol. 69, Issue 1, pp. 61-7, (2014) (PubMed).

Images



Immunofluorescence

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-CACNA1G/Cav3.1 Polyclonal Antibody, Unconjugated (ABIN680608) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin-embedded rat brain labeled with Anti-CACNA1G/Cav3.1 Polyclonal Antibody, Unconjugated (ABIN680608) 1:200, overnight at 4°C, The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C.