

Canine Voltage-gated calcium channel ELISA Kit | VGCC elisa kit

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CATALOG #
AAA91247

REACTIVITY
Canine

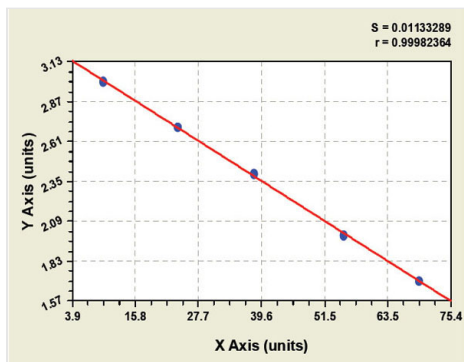
PRODUCT SYNONYMS

Voltage-gated calcium channel; Canine Voltage-gated calcium channel ELISA Kit; VGCC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Sandwich
Detection Range	25-500pg/mL
Sensitivity	1.0pg/mL
Intended Uses	This VGCC ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine VGCC. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for VGCC elisa kit

Principle of the Assay: VGCC ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-VGCC antibody and an VGCC-HRP conjugate. The assay sample and buffer are incubated together with VGCC-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the VGCC concentration since VGCC from samples and VGCC-HRP conjugate compete for the anti-VGCC antibody binding site. Since the number of sites is limited, as more sites are occupied by VGCC from the sample, fewer sites are left to bind VGCC-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The VGCC concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	951207
NCBI GeneID	775
Molecular Weight	239,704 Da
NCBI Official Full Name	voltage-gated calcium channel, partial
NCBI Official Synonym Full Names	calcium channel, voltage-dependent, L type, alpha 1C subunit
NCBI Official Symbol	CACNA1C
NCBI Official Synonym Symbols	TS; LQT8; CACH2; CACN2; CaV1.2; CCHL1A1; CACNL1A1
NCBI Protein Information	voltage-dependent L-type calcium channel subunit alpha-1C; DHPR, alpha-1 subunit; voltage-dependent L-type Ca ²⁺ channel alpha 1 subunit; calcium channel, cardiac dihydropyridine-sensitive, alpha-1 subunit; calcium channel, L type, alpha-1 polypeptide, isoform 1, cardiac muscle; voltage-gated L-type calcium channel Cav1.2 alpha 1 subunit, splice variant 10*
UniProt Protein Name	Voltage-dependent L-type calcium channel subunit alpha-1C
UniProt Gene Name	CACNA1C
UniProt Synonym Gene Names	CACH2; CACN2; CACNL1A1; CCHL1A1
UniProt Entry Name	CAC1C_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/vgcc-canine-elisa-kits/voltage-gated-calcium-channel/91247>