

Goat anti-CACNA1G Antibody

Item Number	dAP-1873
Target Molecule	Principle Name: CACNA1G; Official Symbol: CACNA1G; All Names and Symbols: CACNA1G; calcium channel, voltage-dependent, T type, alpha 1G subunit; Ca(V)T.1; Cav3.1; MGC117234; NBR13;; Accession Number (s): NP_061496.2, NP_938192.1, NP_938194.1, NP_938198.1, NP_938199.1, NP_938200.1, NP_938407.1; Human Gene ID(s): 8913; Non-Human GeneID(s): 29717 (rat)
Immunogen	AEEISKREDASGQLS, is from internal region This antibody is expected to recognize isoform 1 (NP_061496.2), 4 (NP_938199.1), 5 (NP_938194.1), 8 (NP_938198.1), 9 (NP_938192.1), 10 (NP_938200.1) and isoform 15 (NP_938407.1).
Applications	Pep ELISA Species Tested:
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied As	Lyophilized powder of 50ug or 100ug IgG; Reconstitute IgG with 100ul or 200ul sterile DI Water and final product will be formulated as 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Peptide ELISA	Peptide ELISA: antibody detection limit dilution 1 to 32000.
Western Blot	Western Blot: Preliminary experiments in Human Brain lysates gave no specific signal but low background (at antibody concentration up to 1µg/ml). We would appreciate any feedback from people in the field - have any results been reported with other antibody
IHC	
Reference	Reference(s): Ernst WL, Zhang Y, Yoo JW, Ernst SJ, Noebels JL, Genetic enhancement of thalamocortical network activity by elevating alpha 1g-mediated low-voltage-activated calcium current induces pure absence epilepsy. <i>J Neurosci</i> . 2009 Feb 11;29(6):1615-25..PMID: 19211869->

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**