

## Goat anti-CACNA1C Antibody

<b>Item Number</b>	dAP-1539
<b>Target Molecule</b>	Principle Name: CACNA1C; Official Symbol: CACNA1C; All Names and Symbols: CACNA1C; calcium channel, voltage-dependent, L type, alpha 1C subunit; CACH2; CACN2; CACNL1A1; CCHL1A1; CaV1.2; MGC120730; TS; DHPR, alpha-1 subunit; calcium channel, L type, alpha 1 polypeptide, isoform 1, cardiac muscle; calcium channel, cardiac dihydropy; Accession Number (s): NP_000710.5; NP_955630.2; NP_001161097.1; NP_001123299.1; NP_001123301.1; NP_001161096.1; NP_001123302.1;
<b>Immunogen</b>	RARGRPSEELQD, is from C Terminus This antibody is expected to recognise all reported human isoforms.
<b>Applications</b>	Pep ELISA, WB  Species Tested: Human
<b>Purification</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Supplied As</b>	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.
<b>Peptide ELISA</b>	Peptide ELISA: antibody detection limit dilution 1 to 64000.
<b>Western Blot</b>	Western Blot: Approx. 200kDa band observed in Human Heart lysate (calculated MW of 240kDa according to NP_000710.5). Recommended concentration: 1.0-3.0µg/ml.
<b>IHC</b>	
<b>Reference</b>	Reference(s): Saud ZA, Minobe E, Wang WY, Han DY, Horiuchi M, Hao LY, Kameyama M. Calpastatin binds to a calmodulin-binding site of cardiac Cav1.2 Ca <sup>2+</sup> channels. Biochem Biophys Res Commun. 2007 Dec 14;364(2):372-7. Epub 2007 Oct 15..PMID: 17950697->

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 ender users! This product is sold for **Research Use Only**