



Anti-CAMK2G monoclonal antibody (DCABH-10823)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a gamma chain. Six alternatively spliced variants that encode six different isoforms have been characterized to date. Additional alternative splice variants that encode different isoforms have been described, but their full-length nature has not been determined.

Immunogen A synthetic peptide of human CAMK2G is used for rabbit immunization.

Isotype IgG

Source/Host Rabbit

Species Reactivity Human

Purification Protein A

Conjugate Unconjugated

Applications Western Blot (Transfected lysate); ELISA

Buffer In 1x PBS, pH 7.4

Preservative None

Storage Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	CAMK2G calcium/calmodulin-dependent protein kinase II gamma [Homo sapiens]
Official Symbol	CAMK2G
Synonyms	CAMK2G; calcium/calmodulin-dependent protein kinase II gamma; calcium/calmodulin dependent protein kinase (CaM kinase) II gamma , CAMKG; calcium/calmodulin-dependent protein kinase type II subunit gamma; caMK-II subunit gamma; calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma; CAMK; CAMKG; CAMK-II; FLJ16043; MGC26678;
Entrez Gene ID	818
Protein Refseq	NP_001191421
UniProt ID	Q13555
Chromosome Location	10q22
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; BCR signaling pathway, organism-specific biosystem; CREB phosphorylation through the activation of CaMKII, organism-specific biosystem; CREB phosphorylation through the activation of Ras, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem;
Function	ATP binding; ATP binding; calcium-dependent protein serine/threonine phosphatase activity; calmodulin binding; calmodulin binding; calmodulin-dependent protein kinase activity; calmodulin-dependent protein kinase activity; nucleotide binding;