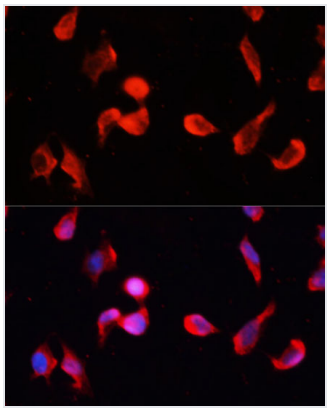
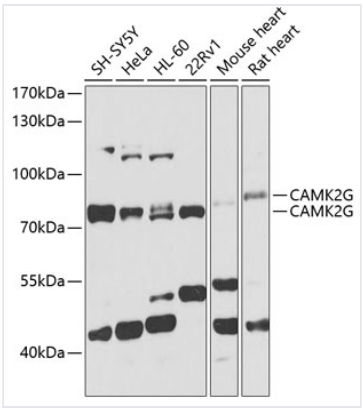
CAMK2G Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

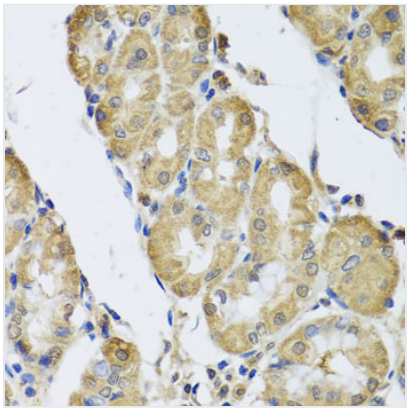
Product Name	CAMK2G, Polyclonal Antibody
Full Product Name	CAMK2G Rabbit Polyclonal Antibody
Product Gene Name	anti-CAMK2G antibody
Product Synonym Names	CAMK2G; CAMK; CAMK-II; CAMKG
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	558
OMIM	602123
3D Structure	ModBase 3D Structure for Q13555
Immunogen	Recombinant fusion protein of human CAMK2G (NP_751909.1).
Product Categories/Family for anti-CAMK2G antibody	Primary Antibody
Applications Tested/Suitable for anti-CAMK2G antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-CAMK2G antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200
Related Product Information for anti-CAMK2G antibody	The product of this gene is one of the four subunits of an enzyme which 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. Many alternatively spliced transcripts encoding different isoforms have been described but the full-length nature of all the variants has not been determined.
Other Notes	Small volumes of anti-CAMK2G antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CAMK2G purchase	MBS9465810 is an antibody targeting CAMK2G. Also known as CAMK2G Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



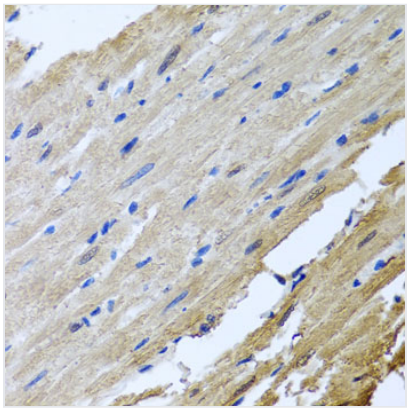
Immunofluorescence (IF) of anti-CAMK2G antibody
Immunofluorescence analysis of HeLa cells using CAMK2G Polyclonal at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



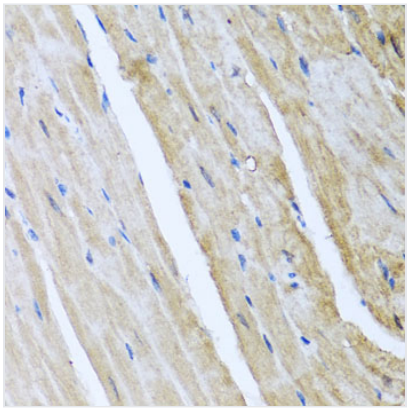
Western Blot (WB) of anti-CAMK2G antibody
Western blot analysis of extracts of various cell lines, using CAMK2G at 1:1000 dilution.



Immunohistochemistry (IHC) of anti-CAMK2G antibody
Immunohistochemistry of paraffin-embedded human stomach using CAMK2G at dilution of 1:100 (40x lens).



Immunohistochemistry (IHC) of anti-CAMK2G antibody
Immunohistochemistry of paraffin-embedded rat heart using CAMK2G at dilution of 1:100 (40x lens).



Immunohistochemistry (IHC) of anti-CAMK2G antibody
Immunohistochemistry of paraffin-embedded mouse heart using CAMK2G at dilution of 1:100 (40x lens).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAMK2G. It may not necessarily be applicable to this product.

NCBI GI #	62512173
NCBI GeneID	818
NCBI Accession #	Q13555.3
UniProt Primary Accession #	Q13555

UniProt Secondary Accession #	O00561; O15378; Q13279; Q13282; Q13556; Q5SQZ3; Q5SQZ4; Q5SWX4; Q7KYX5; Q8N4I3; Q8NIA4
UniProt Related Accession #	Q13555
NCBI Official Full Name	Calcium/calmodulin-dependent protein kinase type II subunit gamma
NCBI Official Synonym Full Names	calcium/calmodulin-dependent protein kinase II gamma
NCBI Official Symbol	CAMK2G
NCBI Official Synonym Symbols	CAMK; CAMKG; CAMK-II
UniProt Protein Name	Calcium/calmodulin-dependent protein kinase type II subunit gamma
Protein Family	Calcium/calmodulin-dependent protein kinase
UniProt Gene Name	CAMK2G
UniProt Synonym Gene Names	CAMK; CAMK-II; CAMKG; CaM kinase II subunit gamma; CaMK-II subunit gamma
UniProt Entry Name	KCC2G_HUMAN
NCBI Protein Information	calcium/calmodulin-dependent protein kinase type II subunit gamma; caMK-II subunit gamma; calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma
UniProt Comments for CAMK2G	CAMK2G: a protein kinase of the CAMK2 family. A prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses that may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity. The holoenzyme is composed of four different chains: alpha, beta, gamma, and delta. The different chains assemble into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. May interact with BAALC, MPDZ, SYN1 and synGAP. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Protein kinase, Ser/Thr (non-receptor); Kinase, protein; EC 2.7.11.17; Protein kinase, CAMK; CAMK group; CAMK2 family Chromosomal Location of Human Ortholog: 10q22 Cellular Component: nucleoplasm; sarcoplasmic reticulum membrane; membrane; plasma membrane; cytosol Molecular Function: calmodulin binding; protein binding; protein homodimerization activity; calcium-dependent protein serine/threonine phosphatase activity; calmodulin-dependent protein kinase activity; ATP binding Biological Process: nervous system development; synaptic transmission; dephosphorylation; regulation of skeletal muscle adaptation; insulin secretion; calcium ion transport; protein amino acid autophosphorylation; cytokine and chemokine mediated signaling pathway; regulation of calcium ion transport; cell differentiation; protein oligomerization; G1/S transition of mitotic cell cycle
Research Articles on CAMK2G	**1.** CaMKII-dependent microtube polymerization may be responsible for the enhanced uptake of PEI/ON complexes in A549 cells under oxidative stress conditions.
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