

CaMK2alpha/beta/delta Antibody | anti-CAMK2A antibody

CaMK2alpha/beta/delta (Phospho-Thr305) Antibody

CATALOG # AAA109204	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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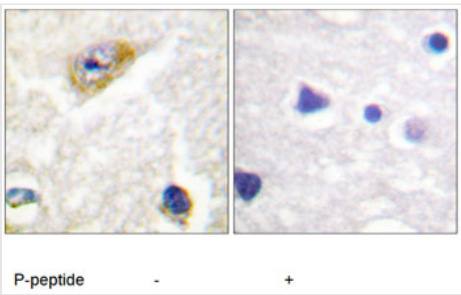
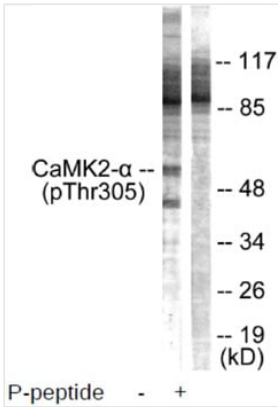
PRODUCT SYNONYMS

CaMK2alpha/beta/delta; CaMK2alpha/beta/delta (Phospho-Thr305) Antibody; CAMK2A; CaM-kinase II alpha chain; CaMK-II alpha subunit; CaMKII-alpha; Calcium/calmodulin-dependent protein kinase type II alpha chain; EC 2.7.11.17; KCC2A; kinase CaMK2-alpha; anti-CAMK2A antibody

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Specificity	CaMKII (Phospho-Thr305) antibody detects endogenous levels of CaMKII only when phosphorylated at threonine 305.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	478
Applicable Applications for anti-CAMK2A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human CaMKII around the phosphorylation site of threonine 305 (I-L-TP-T-M).
All Sites	Human: Thr305 Mouse: Thr305 Rat: Thr305
Preparation and Storage	Store at -20°C for 1 year.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin embedded human brain tissue using CaMKII (Phospho-Thr305) Antibody

WB (Western Blot)
Western Blot analysis of extracts from NIH/3T3 cells, using CaMKII (Phospho-Thr305) Antibody.

ADDITIONAL INFORMATION

Product Categories/Family for anti-CAMK2A antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
References	Carl W. Tong, J. Physiol., Aug 2004; 558: 927-941. Pierre R, J. Biol. Chem., Sep 1997; 272: 24133. Daliang Wang, PNAS, Jun 1998; 95: 7133.

NCBI AND UNIPROT INFORMATION

NCBI GI #	25952118
NCBI GeneID	815
NCBI Accession #	NP_741960.1
NCBI GenBank Nucleotide #	NM_171825.2
UniProt Accession #	Q9UQM7; Q9UL21; Q9Y2H4; Q9Y352
NCBI Official Full Name	calcium/calmodulin-dependent protein kinase type II subunit alpha isoform 2
NCBI Official Synonym Full Names	calcium/calmodulin dependent protein kinase II alpha
NCBI Official Symbol	CAMK2A
NCBI Official Synonym Symbols	CAMKA; MRD53
NCBI Protein Information	calcium/calmodulin-dependent protein kinase type II subunit alpha
UniProt Protein Name	Calcium/calmodulin-dependent protein kinase type II subunit alpha
UniProt Gene Name	CAMK2A
UniProt Synonym Gene Names	CAMKA; KIAA0968; CaM kinase II subunit alpha; CaMK-II subunit alpha

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.