



Magic™ Anti-CaMK II (Phospho T286) polyclonal antibody (CPBT-66697RC)

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

PRODUCT INFORMATION

Product Overview	This product is specific for rat calcium/calmodulin kinase II (CaMK II) alpha and CaMK II beta, when phosphorylated at Thr286. CaMKII is a multi-functional calcium and calmodulin-dependent kinase which has an important role in cell signalling and becomes autonomously active when phosphorylated at Thr286. Western Blotting detects bands of approximately 50 and 60 kDa in rat brain lysates, corresponding to CaMKII alpha and CaMK II beta respectively.
Specificity	CaMK II
Target	CaMK II
Immunogen	Synthetic phosphopeptide corresponding to an amino acid sequence within CaMK II which includes phosphorylated Thr286.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat, Human, Mouse, Xenopus
Conjugate	Unconjugated
Applications	WB
Format	Purified IgG - liquid
Size	100 µl
Preservative	0.09% Sodium Azide
Storage	in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend

GENE INFORMATION

Gene Name	Camk2a calcium/calmodulin-dependent protein kinase II alpha [Rattus norvegicus (Norway rat)]
Official Symbol	CAMK2A
Synonyms	CAMK2A; calcium/calmodulin-dependent protein kinase II alpha; PKCCD; PK2CDD; calcium/calmodulin-dependent protein kinase type II subunit alpha; alpha CaM kinase II; caMK-II subunit alpha; caM-kinase II alpha chain; caM kinase II subunit alpha; Ca2+/calmod
Entrez Gene ID	25400
Protein Refseq	NP_037052
UniProt ID	P08413
Chromosome Location	18q11
Pathway	Adrenergic signaling in cardiomyocytes; Amphetamine addiction; Calcium Regulation in the Cardiac Cell; Calcium signaling pathway; Cholinergic synapse; Circadian entrainment; Dopaminergic synapse; EGFR1 Signaling Pathway;
Function	ATP binding; GTPase activating protein binding; calmodulin binding; calmodulin-dependent protein kinase activity; glutamate receptor binding; kinase activity; protein binding; protein homodimerization activity; protein serine/threonine kinase activity;