Data Sheet (Cat.No.TMAC-00546)

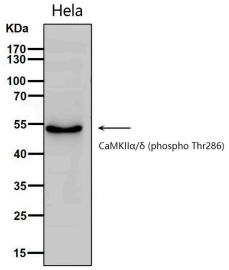
Anti-Phospho-CAMKII alpha/gamma (Thr286) Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Actual: 54 kDa.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Applications

Verified Activity: 1. Western blot analysis of lysates from HeLa cells, using CaMKIIα/δ (phospho Thr286) Polyclonal Antibody.



Application:	ELISA,ICC/IF,IHC-P,WB
Recommended	WB: 1:500-2000; IHC-P: 1:100-300; ICC/IF: 1:200-1000; ELISA: 1:10000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized phosphopeptide: human CaMK2 around the phosphorylation site of Thr286. AA range:256-305
Antigen Species:	human
Uniprot ID:	Q9UQM7 & Q13555
Synonyms:	CAMKII alpha/gamma (p-Thr286);p-CAMKII alpha/gamma (T286);p-CAMKII alpha/gamma (Thr286);CAMKII alpha/gamma (p-T286)

Research Background

calcium/calmodulin dependent protein kinase II alpha(CAMK2A) Homo sapiens The product of this gene belongs to the serine/threonine protein kinases family, and to the Ca(2+)/calmodulin-dependent protein kinases subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. This calcium calmodulin-dependent protein kinase is composed of four different chains: alpha, beta, gamma, and delta. The alpha chain encoded by this gene is required for hippocampal long-term potentiation (LTP) and spatial learning. In addition to its calcium-calmodulin (CaM)-dependent activity, this protein can undergo autophosphorylation, resulting in CaM-independent activity. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided

by RefSeq, Nov 2008],

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