CaMK2β/γ Antibody

Catalog No: #33871

Package Size: #33871-1 50ul #33871-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description	
Product Name	CaMK2β/γ Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total CaMK2β/γ protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from C-terminal of human CaMK2β/γ.
Target Name	CaMK2β/γ
Other Names	Calcium/calmodulin-dependent protein kinase type II gamma chain; EC 2.7.11.17; CaM-kinase II gamma
	chain; CaM kinase II subunit gamma; CaMK-II subunit gamma
Accession No.	Swiss-Prot: Q13555/Q13554NCBI Gene ID: 818/816
Uniprot	Q13555
GenelD	818;
SDS-PAGE MW	62kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide
	and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from Jurkat cells and COLO205 cells, using CaMK2 β / γ antibody #33871.

Background

Calcium/calmodulin-dependent protein kinase that functions autonomously after Ca2+/calmodulin-binding and autophosphorylation, and is involved in sarcoplsamic reticulum Ca2+ transport in skeletal muscle and may function in dendritic spine and synapse formation and neuronal plasticity. In slow-twitch muscles, is involved in regulation of sarcoplasmic reticulum (SR) Ca2+ transport and in fast-twitch muscle participates in the control of Ca2+ release from the SR through phosphorylation of the ryanodine receptor-coupling factor triadin. In neurons, may participate in the promotion of dendritic spine and synapse formation and maintenance of synaptic plasticity which enables long-term potentiation (LTP) and hippocampus-dependent learning.

Deloukas P., Nature 429:375-381(2004).

Breen M.A., Biochem. Biophys. Res. Commun. 236:473-478(1997). Tombes R.M., Biochim. Biophys. Acta 1355:281-292(1997).

Note: This product is for in vitro research use only