

Anti-CaMKII α Rabbit pAb

WL03453

For Research Use Only. Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-CaMKII α Rabbit pAb	
Source	Rabbit	
Species reactivity	Human, Mouse, Rat	
Tested applications	WB	1:1000-1:2000
	IHC	1:100-1:200
Cellular localization	Cell junction, synapse, presynaptic cell membrane	
Pack size	50/100/200/500/1000 μ l	
Storage	Store at -20°C. Avoid freeze/thaw cycles.	
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 μ g/ml	
	BSA, 50% glycerol and less than 0.02% sodium azide	

General Information

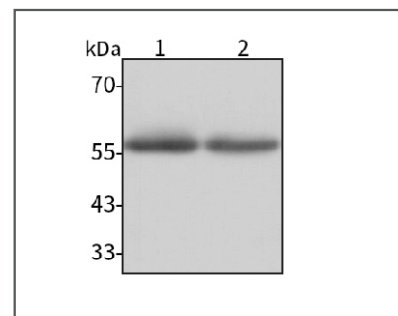
Background	CaMKII belongs to the Serine/Threonine protein kinases family, and to the Ca ²⁺ /calmodulin-dependent protein kinases subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. CaMKII is composed of four different chains: alpha, beta, gamma, and delta. They may or may not be co-expressed in the same tissue type. 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.
Immunogen	Polyclonal antibody is produced by immunizing animals with a synthetic peptide of CaMKII α .
Purification	Polyclonal antibody was purified by Protein A affinity chromatography.

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Product Images

Western blot-Anti-CaMKII α pAb

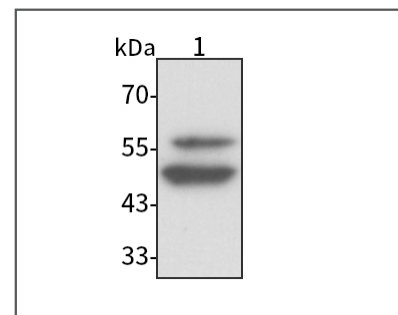
Lane 1: Human Hela cell lysate

Lane 2: Human SH-SY5Y cell lysate

All lanes: Anti-CaMKII α at 1:1000 dilutionLysates/proteins at 20-50 μ g per lane.

Predicted band size: 54 kDa

Observed band size: 45-60 kDa

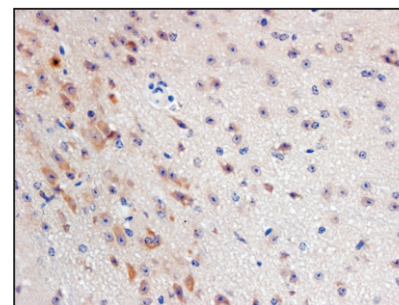
Western blot-Anti-CaMKII α pAb

Lane 1: Rat brain tissue lysate

All lanes: Anti-CaMKII α at 1:1000 dilutionLysates/proteins at 20-50 μ g per lane.

Predicted band size: 54 kDa

Observed band size: 45-60 kDa

Immunohistochemistry-Anti-CaMKII α pAbImmunohistochemical analysis of paraffin-embedded mouse brain using anti-CaMKII α Rabbit Antibody at 1:200 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

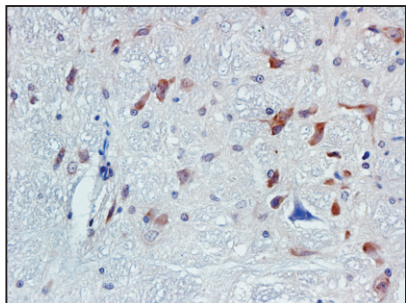
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Immunohistochemistry-Anti-CaMKII α pAb

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