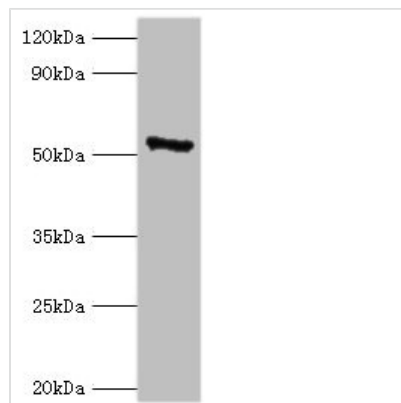




CAMK4 Antibody

Product Code	CSB-PA614976ESR2HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q16566
Immunogen	Recombinant Human Calcium/calmodulin-dependent protein kinase type IV protein (304-473AA)
Raised In	Rabbit
Species Reactivity	Human
Tested Applications	ELISA, WB, IP; Recommended dilution: WB:1:1000-1:5000, IP:1:200-1:2000
Relevance	Calcium/calmodulin-dependent protein kinase that operates in the calcium-triggered CaMKK-CaMK4 signaling cascade and regulates, mainly by phosphorylation, the activity of several transcription activators, such as CREB1, MEF2D, JUN and RORA, which play pivotal roles in immune response, inflammation, and memory consolidation. In the thymus, regulates the CD4+/CD8+ double positive thymocytes selection threshold during T-cell ontogeny. In CD4 memory T-cells, is required to link T-cell antigen receptor (TCR) signaling to the production of IL2, IFNG and IL4 (through the regulation of CREB and MEF2). Regulates the differentiation and survival phases of osteoclasts and dendritic cells (DCs). Mediates DCs survival by linking TLR4 and the regulation of temporal expression of BCL2. Phosphorylates the transcription activator CREB1 on '\Ser-133\' in hippocampal neuron nuclei and contribute to memory consolidation and long term potentiation (LTP) in the hippocampus. Can activate the MAP kinases MAPK1/ERK2, MAPK8/JNK1 and MAPK14/p38 and stimulate transcription through the phosphorylation of ELK1 and ATF2. Can also phosphorylate in vitro CREBBP, PRM2, MEF2A and STMN1/OP18.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purification Method	Antigen Affinity Purified
Isotype	IgG
Clonality	Polyclonal
Alias	Calcium/calmodulin-dependent protein kinase type IV (CaMK IV) (EC 2.7.11.17) (CaM kinase-GR), CAMK4, CAMK CAMK-GR CAMKIV
Species	Human
Research Area	Neuroscience
Target Names	CAMK4
Image	



Western blot

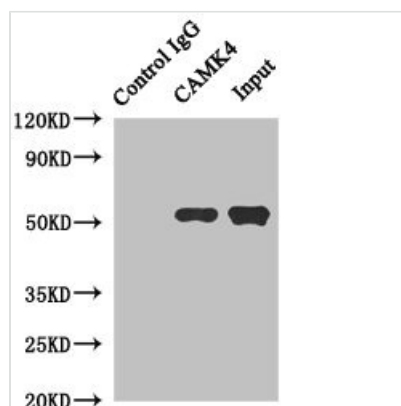
All lanes: CAMK4 antibody at 2 μ g/ml + 293T whole cell lysate

Secondary

Goat polyclonal to rabbit IgG at 1/10000 dilution

Predicted band size: 52 kDa

Observed band size: 52 kDa



Immunoprecipitating CAMK4 in Jurkat whole cell lysate

Lane 1: Rabbit control IgG instead of (1 μ g) instead of CSB-PA614976ESR2HU in Jurkat whole cell lysate. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the Secondary antibody (1/50000)

Lane 2: CSB-PA614976ESR2HU (4 μ g) + Jurkat whole cell lysate (500 μ g)

Lane 3: Jurkat whole cell lysate (20 μ g)