

Rabbit anti-Human CAMK4 Polyclonal Antibody | anti-CAMK4 antibody

CAMK4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA118793	Rabbit	Human	Immunoprecipitation, Western Blot, ELISA

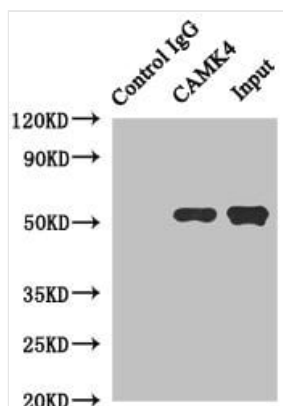
PRODUCT SYNONYMS

CAMK4; Polyclonal Antibody; CAMK4 Antibody; CaMK IV; CaM kinase-GR; CAMK; CAMK-GR; CAMKIV; anti-CAMK4 antibody

PRODUCT SPECIFICATIONS

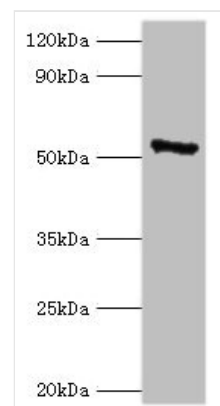
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen Affinity Purified
Sequence Length	473
Applicable Applications for anti-CAMK4 antibody	IP (Immunoprecipitation), WB (Western Blot), ELISA
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Conjugate	Non-conjugated
Immunogen	Recombinant human Calcium/calmodulin-dependent protein kinase type IV protein (304-473aa)
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-1545 / sc-9036
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



IP (Immunoprecipitation)

Immunoprecipitating CAMK4 in Jurkat whole cell lysate. Lane 1: Rabbit monoclonal IgG(1ug) instead of AAA118793 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: AAA118793(4ug)+ Jurkat whole cell lysate(500ug). Lane 3: Jurkat whole cell lysate (20ug)



WB (Western Blot)

Western blot. All lanes: CAMK4 antibody at 2ug/ml+293T whole cell lysate. Secondary: Goat polyclonal to rabbit at 1/10000 dilution. Predicted band size: 52kDa. Observed band size: 52kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CAMK4 antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502557
NCBI GeneID	814
NCBI Accession #	NP_001735.1
NCBI GenBank Nucleotide #	NM_001744.4
UniProt Accession #	Q16566; D3DSZ7
Molecular Weight	51,926 Da
NCBI Official Full Name	calcium/calmodulin-dependent protein kinase type IV
NCBI Official Synonym Full Names	calcium/calmodulin-dependent protein kinase IV
NCBI Official Symbol	CAMK4
NCBI Official Synonym Symbols	IV; caMK; CaMK IV; CaMK-GR
NCBI Protein Information	calcium/calmodulin-dependent protein kinase type IV
UniProt Protein Name	Calcium/calmodulin-dependent protein kinase type IV
UniProt Gene Name	CAMK4
UniProt Synonym Gene Names	CAMK; CAMK-GR; CAMKIV; CaMK IV
UniProt Entry Name	KCC4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/camk4-antibody-immunoprecipitation-western-blot-elisa/118793>