

Rabbit anti-Human CAMK2D Polyclonal Antibody | anti-CAMK2D antibody

CAMK2D Antibody

CATALOG # AAA231005	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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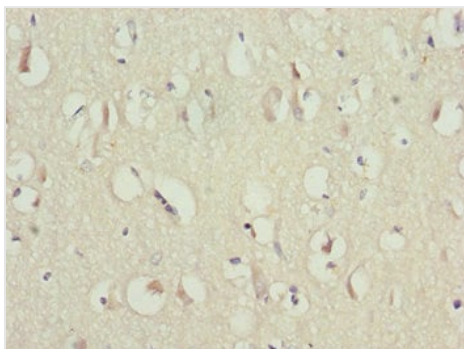
PRODUCT SYNONYMS

CAMK2D; Polyclonal Antibody; CAMK2D Antibody; Calcium/calmodulin-dependent protein kinase type II subunit delta; CaM kinase II subunit delta; CaMK-II subunit delta; CAMKD; anti-CAMK2D antibody

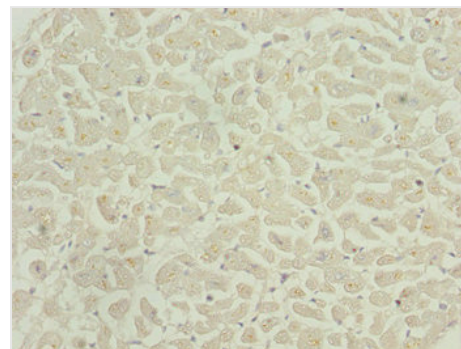
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid
Sequence Length	499
Applicable Applications for anti-CAMK2D antibody	IHC (Immunohistochemistry), ELISA
Species	Human
Immunogen	Recombinant human Calcium/calmodulin-dependent protein kinase type II subunit delta protein (N-260AA)
Conjugate	Non-conjugated
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
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



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human brain tissue using AAA231005 at dilution 1:100



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human heart tissue using AAA231005 at dilution 1:100

ADDITIONAL INFORMATION

Related Product Information for anti-CAMK2D antibody	Calcium/calmodulin-dependent protein kinase involved in the regulation of Ca(2+) homeostasis and excitation-contraction coupling (ECC) in heart by targeting ion channels, transporters and accessory proteins involved in Ca(2+) influx into the myocyte, Ca(2+) release from the sarcoplasmic reticulum (SR), SR Ca(2+) uptake and Na(+) and K(+) channel transport. Targets also transcription factors and signaling molecules to regulate heart function. In its activated form, is involved in the pathogenesis of dilated cardiomyopathy and heart failure. Contributes to cardiac decompensation and heart failure by regulating SR Ca(2+) release via direct phosphorylation of RYR2 Ca(2+) channel on 'Ser-2808'. In the nucleus, phosphorylates the MEF2 repressor HDAC4, promoting its nuclear export and binding to 14-3-3 protein, and expression of MEF2 and genes involved in the hypertrophic program. Is essential for left ventricular remodeling responses to myocardial infarction. In pathological myocardial remodeling acts downstream of the beta adrenergic receptor signaling cascade to regulate key proteins involved in ECC. Regulates Ca(2+) influx to myocytes by binding and phosphorylating the L-type Ca(2+) channel subunit beta-2 CACNB2. In addition to Ca(2+) channels, can target and regulate the cardiac sarcolemmal Na(+) channel Nav1.5/SCN5A and the K+ channel Kv4.3/KCND3, which contribute to arrhythmogenesis in heart failure. Phosphorylates phospholamban (PLN/PLB), an endogenous inhibitor of SERCA2A/ATP2A2, contributing to the enhancement of SR Ca(2+) uptake that may be important in frequency-dependent acceleration of relaxation (FDAR) and maintenance of contractile function during acidosis. May participate in the modulation of skeletal muscle function in response to exercise, by regulating SR Ca(2+) transport through phosphorylation of PLN/PLB and triadin, a ryanodine receptor-coupling factor.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	26667180
NCBI GeneID	817
NCBI Accession #	NP_001212.2
NCBI GenBank Nucleotide #	NM_001221.3
UniProt Accession #	Q13557; Q52PK4; Q59G21; Q8N553; Q9UGH6; Q9UQE9; A8MVS8
Molecular Weight	54,114 Da
NCBI Official Full Name	calcium/calmodulin-dependent protein kinase type II subunit delta isoform 3
NCBI Official Synonym Full Names	calcium/calmodulin dependent protein kinase II delta
NCBI Official Symbol	CAMK2D
NCBI Official Synonym Symbols	CAMKD
NCBI Protein Information	calcium/calmodulin-dependent protein kinase type II subunit delta
UniProt Protein Name	Calcium/calmodulin-dependent protein kinase type II subunit delta
UniProt Gene Name	CAMK2D
UniProt Synonym Gene Names	CAMKD; CaM kinase II subunit delta; CaMK-II subunit delta
UniProt Entry Name	KCC2D_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/camk2d-antibody-immunohistochemistry-elisa/231005>