

Datasheet for ABIN1387249 **anti-CAMK2D antibody**



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Overview

Quantity:	100 µL
Target:	CAMK2D
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CAMK2D antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CAMK2D/CaMKII delta
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	CAMK2D
Alternative Name:	CAMK2D (CAMK2D Products)
Background:	Synonyms: Calcium / calmodulin dependent protein kinase 2 delta; Calcium / calmodulin dependent protein kinase II delta; Calcium/calmodulin-dependent protein kinase type II subunit delta; CAM kinase 2 delta; CAM kinase II delta; CaM kinase II subunit delta; CAMK 2d; CaMK-II

Target Details

subunit delta; CAMK2D; CAMKD; CAMKI; KCC2D_HUMAN; RATCAMKI.

Background: The Ca²⁺/calmodulin-dependent protein kinases (CaM kinases) comprise a structurally related subfamily of serine/threonine kinases which include CaMKI, CaMKII and CaMKIV. CaMKII is a ubiquitously expressed serine/threonine protein kinase that is activated by Ca²⁺ and calmodulin (CaM) and has been implicated in regulation of the cell cycle and transcription. There are four CaMKII isozymes designated α , β , γ and δ , which may or may not be co-expressed in the same tissue type. CaMKIV is stimulated by Ca²⁺ and CaM but phosphorylation by a CaMK is also required for full activation. Stimulation of the T cell receptor CD3 signaling complex with an anti-CD3 monoclonal antibody leads to a 10-40 fold increase in CaMKIV activity. An additional kinase, CaMKK, functions to activate CaMKI through the specific phosphorylation of the regulatory threonine residue at position 177.

Gene ID:	817
Pathways:	WNT Signaling , Interferon-gamma Pathway , Myometrial Relaxation and Contraction , Smooth Muscle Cell Migration

Application Details

Application Notes:	WB 1:300-5000 IHC-P 1:200-400 IF(IHC-P) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months