Datasheet for ABIN2172206

anti-Calmodulin 1 antibody (AA 81-152)

2 Images

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Overview

Quantity:	100 µL
Target:	Calmodulin 1 (Calm1)
Binding Specificity:	AA 81-152
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calmodulin 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Calmodulin
Isotype:	IgG
Specificity:	This antibody may detect CAMI, CAM2, CAM3
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Dog,Cow,Horse,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	Calmodulin 1 (Calm1)
Alternative Name:	Calmodulin (Calm1 Products)
Background:	Synonyms: CALM 1, CALM 2, CALM 3, CALM, CALM1, CALM2, CALM3, CALML2, Calmodulin 1, Calmodulin1, CAM 1, CAM 2, CAM 3, CaM, CAM I, CAM1, CAM2, CAM3, CAMB, CAMC, CAMI, CAMIII, DD132, PHKD, Phosphorylase kinase delta, Phosphorylase kinase delta subunit, Calmodulin1, Calmodulin 1, Calmodulin-1, Calmodulin2, Calmodulin 2, Calmodulin-2, Calmodulin3, Calmodulin 3, Calmodulin-3. Background: Calmodulin consists of two glycoproteins, 34 and 39 kDa, sometimes designated epithelial antigen, epithelial specific antigen, and epithelial glycoprotein. The glycoproteins are located on the cell membrane surface and in the cytoplasm of virtually all epithelial cells with the exception of most squamous epithelia, hepatocytes, renal proximal tubular cells, gastric parietal cells and myoepithelial cells. Epithelial Calmodulin is found in the large majority of adenocarcinomas of most sites (50-100 % in various studies, as well as neuroendocrine tumours, including small cell carcinoma. Renal cell carcinoma and hepatocellular carcinoma stain in about 30 % of the cases. Calmodulin mediates the control of a large number of enzymes and other proteins by Ca(2+). Among the enzymes to be stimulated by the calmodulin Ca(2+) complex are a number of protein kinases and phosphatases. Calmodulin has four functional calcium binding sites.
Pathways:	cAMP Metabolic Process, Myometrial Relaxation and Contraction, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma, Phototransduction, BCR Signaling

Application Details

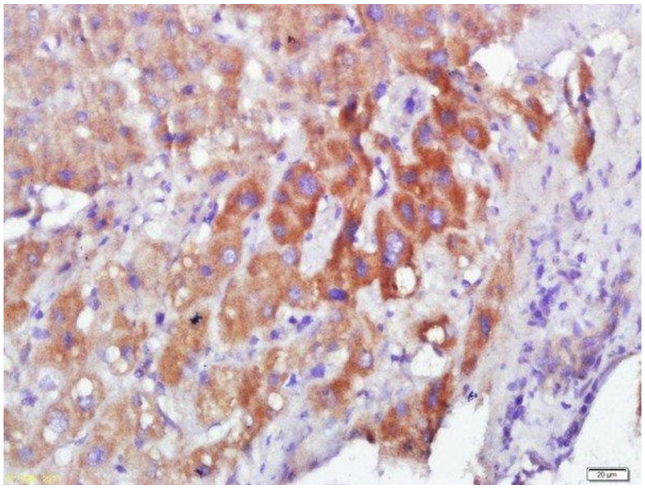
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

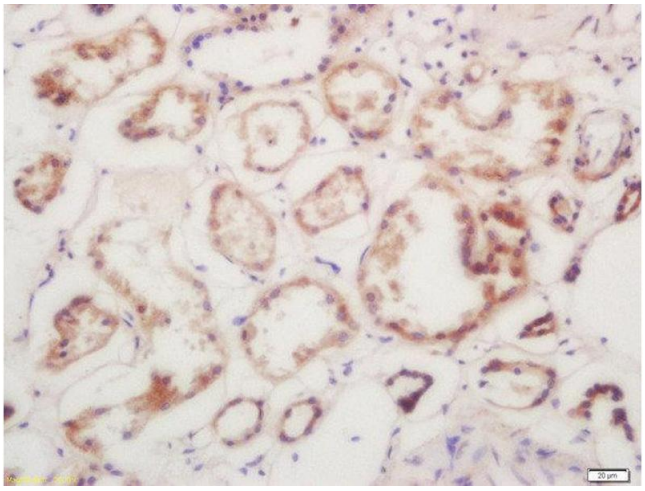
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment: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

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded human hepatocelluar carcinoma, Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal goat serum) at 37°C for 20min, Antibody incubation with Calmodulin Polyclonal Antibody, Unconjugated at 1:200 overnight at 4°C, followed by a conjugated secondary and DAB staining.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded human kindey labeled with Rabbit Anti-Calmodulin/CaM I Polyclonal Antibody, Unconjugated 1:200 followed by conjugation to the secondary antibody and DAB staining