Datasheet for ABIN7296694

anti-PKC theta antibody (C-Term, pSer676)

3 Images

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Overview

Quantity:	100 µL
Target:	PKC theta (PRKCQ)
Binding Specificity:	C-Term, pSer676
Reactivity:	Human, Rat, Mouse, Cow, Dog, Pig, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKC theta antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochromatography (IC)

Product Details

Immunogen:	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PKC theta.
Specificity:	Recognizes endogenous levels of PKC theta (pS676) protein.
Characteristics:	Rabbit polyclonal antibody to PKC theta (pS676)
Purification:	The antibody was purified by immunogen affinity chromatography.

Target Details

Target:	PKC theta (PRKCQ)
Alternative Name:	PKC theta (PRKCQ Products)

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Target Details

Background:	PRKCT, Protein kinase C theta type, nPKC-theta
Gene ID:	5588, 18761
UniProt:	Q04759, Q02111, Q9WTQ0
Pathways:	TCR Signaling, Fc-epsilon Receptor Signaling Pathway, Myometrial Relaxation and Contraction, Regulation of G-Protein Coupled Receptor Protein Signaling, Thromboxane A2 Receptor Signaling

Application Details

Application Notes:	WB (1:500 - 1:1000), IH (1:100 - 1:200), IF/IC (1:100 - 1:500)
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Liquid in 0.42 % Potassium phosphate, 0.87 % Sodium chloride, pH 7.3, 30 % glycerol, and 0.01 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.
Expiry Date:	12 months

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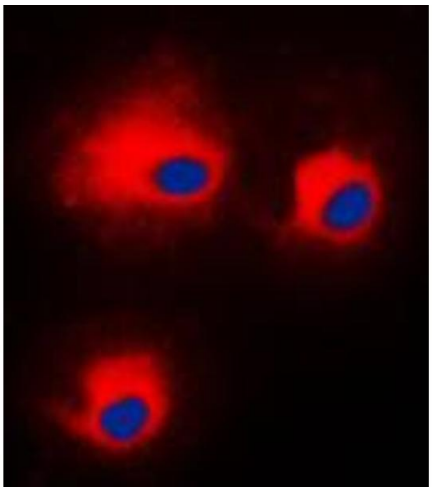
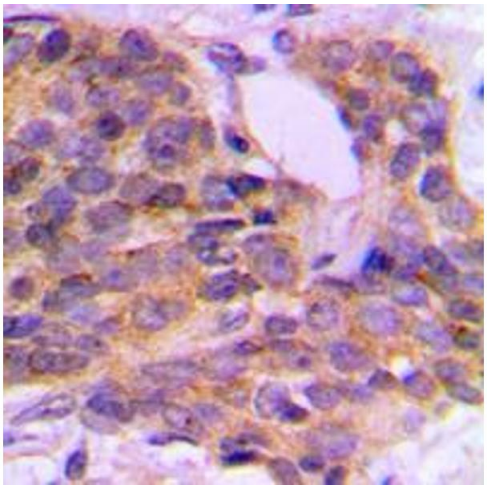


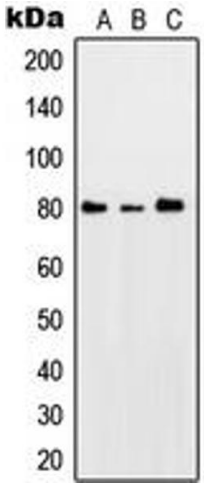
Immunofluorescence

Image 1. Immunofluorescent analysis of PKC theta (pS676) staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



Immunohistochemistry

Image 2. Immunohistochemical analysis of PKC theta (pS676) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Western Blotting

Image 3. Western blot analysis of PKC theta (pS676) expression in HeLa UV-treated (A), SP2/0 UV-treated (B), PC12 UV-treated (C) whole cell lysates.

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