

PKC beta Antibody

Catalog No: #48521

Package Size: #48521-1 50ul #48521-2 100ul



Signalway Antibody

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

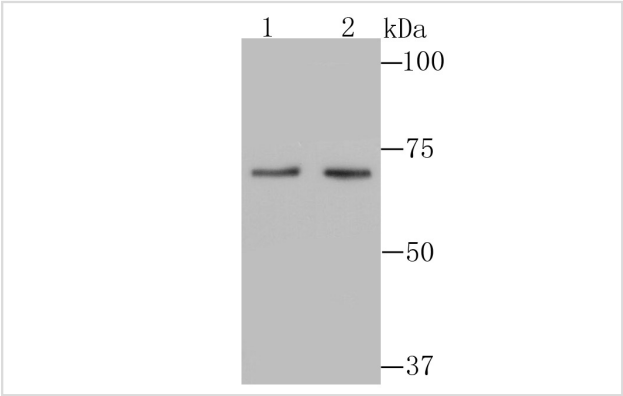
Description

Product Name	PKC beta Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Protein affinity purified
Applications	WB,ICC,IHC
Species Reactivity	Hu, Ms
Immunogen Description	Recombinant protein
Conjugates	Unconjugated
Other Names	KPCB_HUMAN antibody PKC beta antibody PKC-B antibody PKC-beta antibody PKCB antibody Prkcb antibody PRKCB I antibody PRKCB1 antibody PRKCB2 antibody Protein kinase C beta antibody Protein kinase C beta type antibody protein kinase C, beta 1 polypeptide antibody protein kinase C, beta-1 antibody
Accession No.	Swiss-Prot#:P05771
Calculated MW	77 kDa
Formulation	1*TBS (pH7.4), 0.5%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

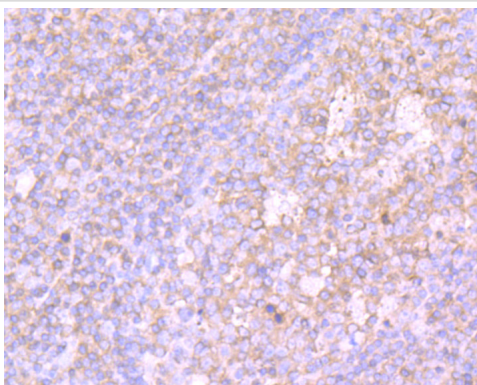
Application Details

WB: 1:500 IHC: 1:50-1:200 ICC: 1:50-1:200

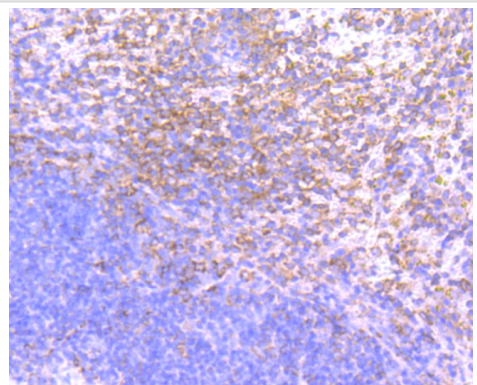
Images



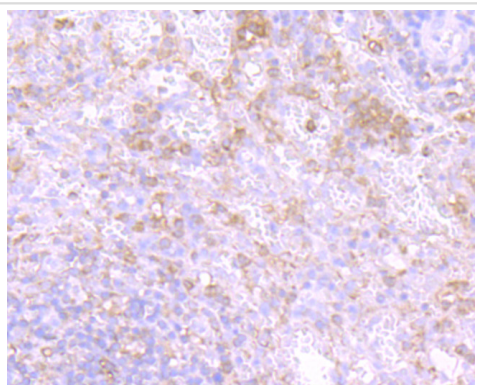
Western blot analysis of PKC beta 2 on different lysates using anti-PKC beta 2 antibody at 1/500 dilution. Positive control 1:500 Lane1: Rat spleen tissue Lane2: Jurkat



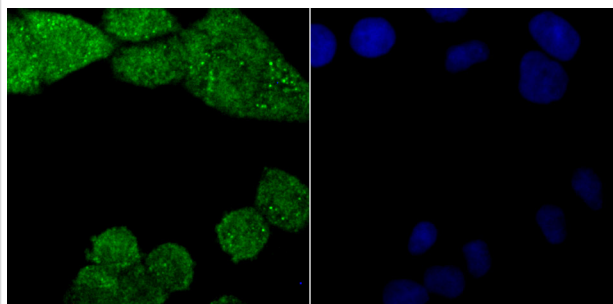
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-PKC beta 2 antibody. Counter stained with hematoxylin.



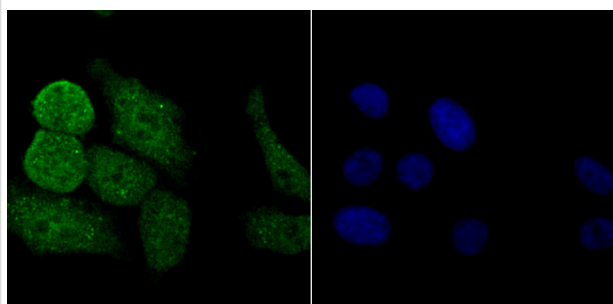
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-PKC beta 2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-PKC beta 2 antibody. Counter stained with hematoxylin.



ICC staining PKC beta 2 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PKC beta 2 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Calcium-activated, phospholipid- and diacylglycerol (DAG)-dependent serine/threonine-protein kinase involved in various cellular processes such as regulation of the B-cell receptor (BCR) signalosome, oxidative stress-induced apoptosis, androgen receptor-dependent transcription regulation, insulin signaling and endothelial cells proliferation. Plays a key role in B-cell activation by regulating BCR-induced NF-kappa-B activation. Mediates the activation of the canonical NF-kappa-B pathway (NFKB1) by direct phosphorylation of CARD11/CARMA1 at 'Ser-559', 'Ser-644' and 'Ser-652'. Phosphorylation induces CARD11/CARMA1 association with lipid rafts and recruitment of the BCL10-MALT1 complex as well as MAP3K7/TAK1, which then activates IKK complex, resulting in nuclear translocation and activation of NFKB1. In endothelial cells, activation of PRKCB induces increased phosphorylation of RB1, increased VEGFA-induced cell proliferation, and inhibits PI3K/AKT-dependent nitric oxide synthase (NOS3/eNOS) regulation by insulin, which causes endothelial dysfunction. Also involved in triglyceride homeostasis (By similarity). Phosphorylates ATF2 which promotes cooperation between ATF2 and JUN, activating transcription.

References

Published Papers

Alexandra A. Lambert;Frederic Barabe;Caroline Gilbert;Michel J. Tremblay et al., DCIR-mediated enhancement of HIV-1 infection requires the ITIM-associated signal transduction pathway, , (2011)

[PMID:21536857](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.