

Datasheet for ABIN967769 anti-PKC beta antibody (AA 126-324)

2 Images

5 Publications



Overview

Quantity:	150 µg
Target:	PKC beta (PRKCB)
Binding Specificity:	AA 126-324
Reactivity:	Human, Rat, Mouse, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PKC beta antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human PKCbeta aa. 126-324
Clone:	36-PKCb
lsotype:	lgG2b
Cross-Reactivity:	Rat (Rattus), Mouse (Murine), Chicken
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide
	compounds in running water before discarding to avoid accumulation of potentially explosive
	deposits in plumbing.
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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Product Details

Purification:

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	PKC beta (PRKCB)
Alternative Name:	PKC beta (PRKCB Products)
Background:	The Protein Kinase C (PKC) family of homologous serine/threonine protein kinases is involved
	in a number of processes such as growth, differentiation, and cytokine secretion. At least
	eleven isozymes have been described. These proteins are products of multiple genes and
	alternative splicing. PKC consists of a single polypeptide chain containing four conserved
	regions (C) and five variable regions (V). The N-terminal half containing C1, C2, V1, and V2
	constitutes the regulatory domain and interacts with the PKC activators Ca2+, phospholipid,
	diacylglycerol, or phorbol ester. However, the novel PKC (nPKC) subfamily members (delta,
	epsilon, eta, and theta isoforms) and the atypical PKC (aPKC) subfamily members (zeta, iota,
	and lambda isoforms) are Ca2+ independent and lack the C2 domain. The aPKC members are
	unique in that their activity is independent of diacylglycerols and phorbol esters. They also lack
	one repeat of the cysteine-rich sequences that are conserved in cPKC and nPKC. The C-
	terminal region of PKC contains the catalytic domain. The PKC pathway represents a major
	signal transduction system that is activated following ligand-stimulation of transmembrane
	receptors by hormones, neurotransmitters and growth factors. PKCbeta is highly expressed in
	brain and hematopoietic cells. Autophosphorylation of PKCbeta occurs at the N- and C-termina
	regions, as well as within the hinge region. However, only the COOH- terminal
	autophosphorylation sites are essential for PKCbeta's function and subcellular localization.
	PKCbeta is critical for the proliferation of K562 cells, as well as being an important regulator of
	human melanogenesis.
Molecular Weight:	80 kDa
Pathways:	WNT Signaling, TCR Signaling, Thyroid Hormone Synthesis, Nuclear Hormone Receptor Binding
	, Chromatin Binding, Myometrial Relaxation and Contraction, VEGF Signaling, Unfolded Protein
	Response, BCR Signaling
Application Dataila	
Application Details	

Comment:	Related Products: ABIN968545, ABIN967389
Restrictions:	For Research Use only

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Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤ 0.09 % 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:	Store undiluted at -20° C.

Publications

Product cited in:Masur, Lang, Niggemann, Zanker, Entschladen: "High PKC alpha and low E-cadherin expression
contribute to high migratory activity of colon carcinoma cells." in: Molecular biology of the cell,
Vol. 12, Issue 7, pp. 1973-82, (2001) (PubMed).

Stebbins, Mochly-Rosen: "Binding specificity for RACK1 resides in the V5 region of beta II protein kinase C." in: **The Journal of biological chemistry**, Vol. 276, Issue 32, pp. 29644-50, (2001) (PubMed).

Bell, Burns: "Lipid activation of protein kinase C." in: **The Journal of biological chemistry**, Vol. 266, Issue 8, pp. 4661-4, (1991) (PubMed).

Soderling: "Protein kinases. Regulation by autoinhibitory domains." in: **The Journal of biological chemistry**, Vol. 265, Issue 4, pp. 1823-6, (1990) (PubMed).

Nishizuka: "The molecular heterogeneity of protein kinase C and its implications for cellular regulation." in: **Nature**, Vol. 334, Issue 6184, pp. 661-5, (1988) (PubMed).



Western Blotting

Image 1. Western blot analysis of PKCß on rat brain lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-PKCß antibody.

Image 2.



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