


Product datasheet

Anti-PKC delta antibody ab4142

1 References

Overview

Product name	Anti-PKC delta antibody
Description	Rabbit polyclonal to PKC delta
Host species	Rabbit
Tested applications	Suitable for: WB, ELISA, IHC-Fr, ICC
Species reactivity	Reacts with: Mouse, Rat Predicted to work with: Mammals 
Immunogen	Synthetic peptide: SFVNPKYEQFLE , corresponding to amino acids 662-673 of Rat PKC delta Run BLAST with Run BLAST with
Positive control	rat cerebellar lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium Azide
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab4142** in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		

Application	Abreviews	Notes
ELISA		
IHC-Fr		
ICC		

Application notes

ELISA: Use at an assay dependent dilution.
 ICC: 1/250.
 IHC-Fr: Use at an assay dependent dilution.
 WB: 1/250. Predicted molecular weight: 81 kDa. Use lysis buffer made of 20 mM Tris-HCl, pH 7.5, 0.25 M sucrose, 10 mM EGTA, 1 mM EDTA, 10 mM β -mercaptoethanol, 1 mM PMSF, 0.02% leupeptin, and 0.1% Triton X-100. Incubate the homogenate for 1 h at 4°C and centrifuge at 100,000 g for 30 min at 4°C. (see Wetsel et al reference).

Not yet tested in other applications.
 Optimal dilutions/concentrations should be determined by the end user.

Target

Function

This is calcium-independent, phospholipid-dependent, serine- and threonine-specific enzyme. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters. May play a role in antigen-dependent control of B-cell function. Phosphorylates MUC1 in the C-terminal and regulates the interaction between MUC1 and beta-catenin.

Sequence similarities

Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 C2 domain. Contains 2 phorbol-ester/DAG-type zinc fingers. Contains 1 protein kinase domain.

Domain

The C1 domain, containing the phorbol ester/DAG-type region 1 (C1A) and 2 (C1B), is the diacylglycerol sensor. The C2 domain is a non-calcium binding domain. It binds proteins containing phosphotyrosine in a sequence-specific manner.

Post-translational modifications

Phosphorylated on Thr-507, within the activation loop. Autophosphorylated and/or phosphorylated. Although the Thr-507 phosphorylation occurs it is not a prerequisite for enzymatic activity.

Cellular localization

Cytoplasm. Membrane.

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