

## Product datasheet

# Recombinant Human PKC delta protein ab27714

### Overview

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<b>Product name</b>	Recombinant Human PKC delta protein
<b>Protein length</b>	Full length protein

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Baculovirus
<b>Amino Acid Sequence</b>	
<b>Species</b>	Human
<b>Molecular weight</b>	78 kDa

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab27714** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	Not enzymatically active. The protein is suspended in SDS/mercaptoethanol sample buffer with a bromphenol blue dye marker.

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.  Constituents: 0.02% Bromophenol blue, 5% Beta mercaptoethanol, 2% SDS
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### General Info

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<b>Function</b>	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
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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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