

## Basic Information

<b>Product Name</b>	Anti-PKC Eta/PRKCH Antibody (Clone#ADAH-16)		
<b>Gene Name</b>	PRKCH		
<b>Source</b>	Rabbit		
<b>Clonality</b>	Monoclonal		
<b>Isotype</b>	IgG		
<b>Species Reactivity</b>	human, mouse, rat		
<b>Tested Application</b>	WB, IHC, IP		
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.		
<b>Immunogen</b>	A synthesized peptide derived from human PKC eta 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.		
<b>Concentration</b>	500 ug/ml		
<b>Purification</b>	Affinity-chromatography		
<b>Observed MW</b>	78 kDa		
<b>Dilution Ratios</b>	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200 ImmunoPrecipitation (IP): 1:20		

## Storage

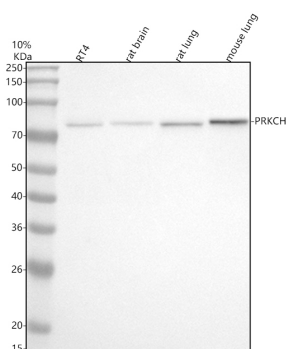
12 months from date of receipt, -20°C as supplied.

## Background Information

PRKCH is also known as PKC eta. Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. Also, PKC family members serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. It is a calcium-independent and phospholipids-dependent protein kinase. And it is predominantly expressed in epithelial tissues and has been shown to reside specifically in the cell nucleus. This protein kinase can

regulate keratinocyte differentiation by activating the MAP kinase MAPK13 (p38delta)-activated protein kinase cascade that targets CCAAT/enhancer-binding protein alpha (CEBPA). It is also found to mediate the transcription activation of the transglutaminase 1 (TGM1) gene.

## Selected Validation Data



Western blot analysis of anti-PKC Eta/PRKCH antibody (BM5367). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human RT4 whole cell lysates,

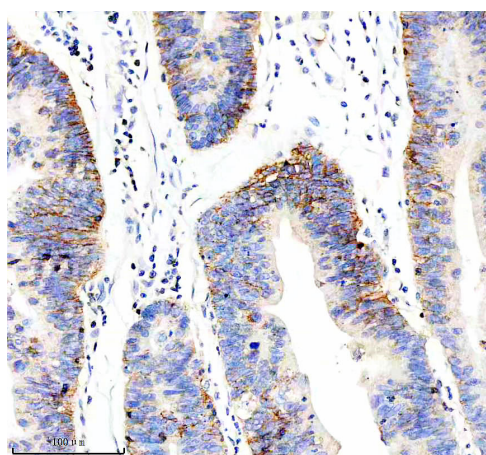
Lane 2: rat brain tissue lysates,

Lane 3: rat lung tissue lysates,

Lane 4: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-PKC Eta/PRKCH antigen affinity purified monoclonal antibody (BM5367) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PKC Eta/PRKCH at approximately 78 kDa. The expected band size for PKC Eta/PRKCH is at 78 kDa.



IHC analysis of PRKCH using anti-PRKCH antibody (BM5367) .

PRKCH was detected in a paraffin-embedded section of human stomach cancer tissue. The tissue section was incubated with rabbit anti-PRKCH Antibody (BM5367) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

Product datasheet

**Anti-PKC Eta/PRKCH Antibody  
(Clone#ADAH-16)**

**Catalog Number: BM5367**



antibody and ELISA experts

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