

Product Name: KD-Validated Protein Kinase C Eta Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01464

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 77.8kDa

Antigen Information

Gene Name	PRKCH PRKCH; Protein Kinase C Eta; PKC-L; PKCL; PRKCL; Protein Kinase C Eta Type; Protein UPEP; EC
Alternative Names	2.7.11.13; NPKC-Eta; UORF2; PRKCH Upstream Open Reading Frame 2; Protein Kinase C, Eta; EC 2.7.11
Gene ID	5583.0
SwissProt ID	P24723
Immunogen	A synthesized peptide derived from human PKC eta

Background

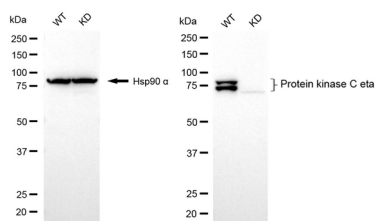
Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the

second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also 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. 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. Mutations in this gene are associated with susceptibility to cerebral infarction. [provided by RefSeq, Sep 2015]

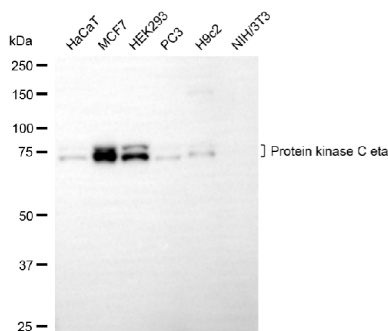
Research Area

Signal Transduction, Metabolism

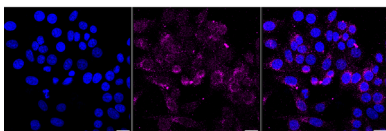
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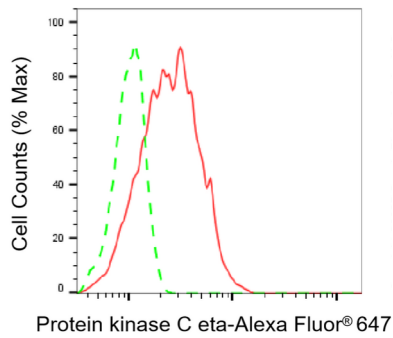
Western blotting analysis using protein kinase C eta antibody (KVA01464). Protein kinase C eta expression in wild-type (WT) and protein kinase C eta (PRKCH) knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with protein kinase C eta antibody (KVA01464, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using protein kinase C eta antibody (KVA01464). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with protein kinase C eta antibody (KVA01464, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Protein kinase C eta antibody (KVA01464, 1:1,000). Nuclei were stained blue with DAPI; Protein kinase C eta was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Protein kinase C eta expression in HepG2 cells using Protein kinase C eta antibody (KVA01464, 1:2,000). Green, isotype control; red, Protein kinase C eta.