

anti-Human PKC eta Polyclonal Antibody | anti-PKC eta antibody

Anti-PKC eta Antibody

CATALOG # AAA46509	REACTIVITY Human	APPLICATIONS Western Blot
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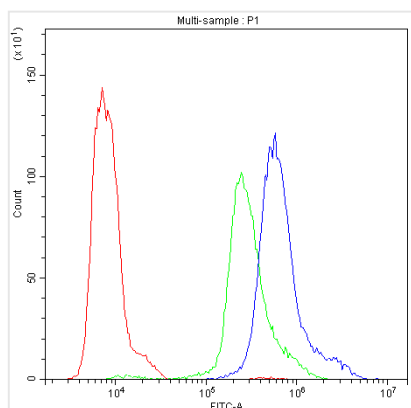
PRODUCT SYNONYMS

PKC eta; Polyclonal Antibody; Anti-PKC eta Antibody; Protein kinase C eta type; KPCL_HUMAN; MGC 5363; MGC26269; MGC5363; nPKC eta; nPKC-eta; PKC h; PKC L; PKC-L; PKCh; PKCL; Prkch; PRKCL; Protein kinase C eta; protein kinase C; eta; anti-PKC eta antibody

PRODUCT SPECIFICATIONS

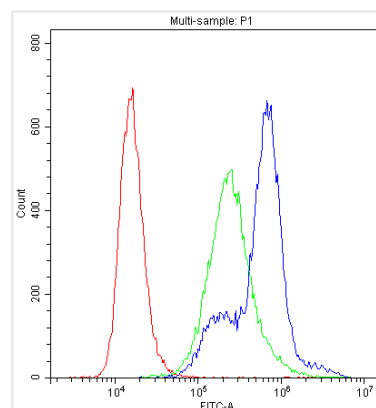
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	683
Applicable Applications for anti-PKC eta antibody	WB (Western Blot)
Immunogen	E Coli-derived human PKC eta recombinant protein (Position: R30-D389). Human PKC eta shares 96.7% and 96.1% amino acid (aa) sequence identity with mouse and rat PKC eta, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



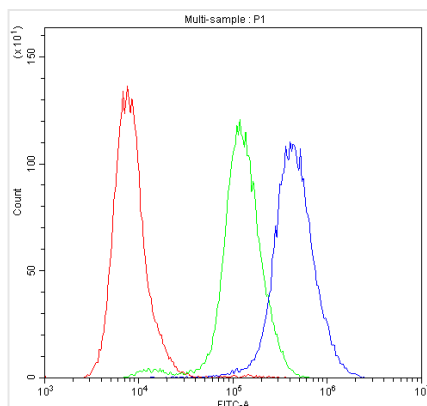
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of MCF-7 cells using anti-PKC-eta antibody (AAA46509). Overlay histogram showing MCF-7 cells stained with AAA46509 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PKC-eta Antibody (AAA46509, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



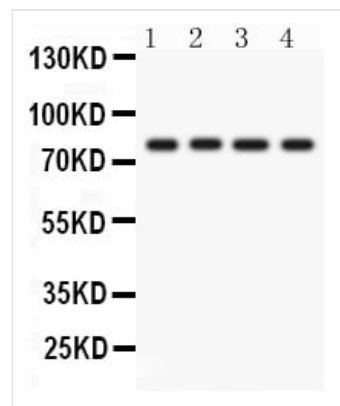
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of K562 cells using anti-PKC-eta antibody (AAA46509). Overlay histogram showing K562 cells stained with AAA46509 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PKC-eta Antibody (AAA46509, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A431 cells using anti-PKC-eta antibody (AAA46509). Overlay histogram showing A431 cells stained with AAA46509 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PKC-eta Antibody (AAA46509, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of PKC eta using anti-PKC eta antibody (AAA46509). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: A431 Whole Cell Lysate Lane 2: A549 Whole Cell Lysate Lane 3: HELA Whole Cell Lysate Lane 4: SKOV Whole Cell Lysate After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PKC eta antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PKC eta at approximately 78KD. The expected band size for PKC eta is at 78KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PKC eta antibody

Description: Rabbit IgG polyclonal antibody for Protein kinase C eta type (PRKCH) detection. Tested with WB in Human.

Background: 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.

References

1. "Entrez Gene: PRKCH protein kinase C, eta". 2. Bacher N, Zisman Y, Berent E, Livneh E (Apr 1992). "Isolation and characterization of PKC-L, a new member of the protein kinase C-related gene family specifically expressed in lung, skin, and heart". Mol Cell Biol 12 (3): 1404.

NCBI AND UNIPROT INFORMATION

NCBI GI #	28557781
NCBI GeneID	5583
NCBI Accession #	NP_006246.2
NCBI GenBank Nucleotide #	NM_006255.4
UniProt Accession #	P24723; Q16246; Q8NE03; B4DJN5
NCBI Official Full Name	protein kinase C eta type
NCBI Official Synonym Full Names	protein kinase C eta
NCBI Official Symbol	PRKCH

NCBI Official Synonym Symbols	PKCL; PKC-L; PRKCL; nPKC-eta
NCBI Protein Information	protein kinase C eta type
UniProt Protein Name	Protein kinase C eta type
UniProt Gene Name	PRKCH
UniProt Synonym Gene Names	PKCL; PRKCL
UniProt Entry Name	KPCL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pkc-eta-antibody-western-blot-elisa/46509>