

Rabbit PRKCE Polyclonal Antibody | anti-PRKCE antibody

Anti-PRKCE Antibody Picoband

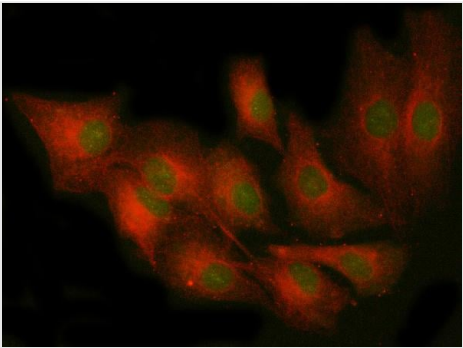
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127039	Rabbit	Human, Mouse, Rat	Western Blot, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

PRKCE; Polyclonal Antibody; Anti-PRKCE Antibody Picoband; Angiopoietin-related protein 4; Angiopoietin-like protein 4; Hepatic fibrinogen/angiopoietin-related protein; HFARP; ANGPTL4; ARP4; PGAR; PP1158; PSEC0166; UNQ171/PRO197; anti-PRKCE antibody

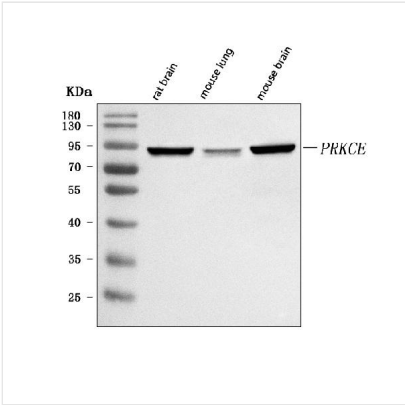
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed at high levels in the placenta, heart, liver, muscle, pancreas and lung but expressed poorly in the brain and kidney.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PRKCE antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Immunogen	E coli-derived human PRKCE recombinant protein (Position: M1-K690).
Subcellular Localization	Secreted, Secreted, extracellular space, extracellular matrix, The unprocessed form interacts with the extracellular matrix. This may constitute a dynamic reservoir, a regulatory mechanism of the bioavailability of ANGPTL4 (By similarity).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Protein with hypoxia-induced expression in endothelial cells. May act as a regulator of angiogenesis and modulate tumorigenesis. Inhibits proliferation, migration, and tubule formation of endothelial cells and reduces vascular leakage. May exert a protective function on endothelial cells through an endocrine action. It is ly involved in regulating glucose homeostasis, lipid metabolism, and insulin sensitivity. In response to hypoxia, the unprocessed form of the protein accumulates in the subendothelial extracellular matrix (ECM). The matrix-associated and immobilized unprocessed form limits the formation of actin stress fibers and focal contacts in the adhering endothelial cells and inhibits their adhesion. It also decreases motility of endothelial cells and inhibits the sprouting and tube formation (By similarity).
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 2. IF analysis of PRKCE4 using anti-PRKCE4 antibody (AAA127039) and anti-Tubulin Alpha antibody (M03989-3).PRKCE4 was detected in immunocytochemical section of A549 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PRKCE4 Antibody (AAA127039) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG and Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of PRKCE using anti-PRKCE antibody (AAA127039).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 30 ug of sample under reducing conditions.Lane 1: rat brain tissue lysates,Lane 2: mouse lung tissue lysates,Lane 3: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-PRKCE antigen affinity purified polyclonal antibody (#AAA127039) 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 1:5000 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 PRKCE at approximately 94 kDa. The expected band size for PRKCE is at 83 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKCE antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PRKCE antibody	Primary Antibodies; Angiogenesis; Cancer; Cancer Metabolism; Cardiovascular; Cholesterol Metabolism; Growth Factors; Hypoxia; Lipid and Lipoprotein Metabolism; Lipid Metabolism; Lipids/Lipoproteins; Metabolic Signaling Pathway; Metabolic Signaling Pathway
References	1. Basta P, Strickland MB, Holmes W, Loomis CR, Ballas LM, Burns DJ (Nov 1992). "Sequence and expression of human protein kinase C-epsilon". Biochim Biophys Acta 1132 (2): 154-60. 2. Knauf, J. A., Elisei, R., Mochly-Rosen, D., Liron, T., Chen, X.-N., Gonsky, R., Korenberg, J. R., Fagin, J. A. Involvement of protein kinase C-epsilon (PKC-epsilon) in thyroid cell death: a truncated chimeric PKC-epsilon cloned from a thyroid cancer cell line protects thyroid cells from apoptosis. J. Biol. Chem. 274: 23414-23425, 1999. 3. Premkumar, L. S., Ahern, G. P. Induction of vanilloid receptor channel activity by protein kinase C. Nature 408: 985-990, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885563
NCBI GeneID	5581
NCBI Accession #	NP_005391.1
NCBI GenBank Nucleotide #	NM_005400.2
UniProt Accession #	Q02156; Q32MQ3; Q53SL4; Q53SM5; Q9UE81; B0LPH7
Molecular Weight	83,674 Da
NCBI Official Full Name	protein kinase C epsilon type
NCBI Official Synonym Full Names	protein kinase C, epsilon

NCBI Official Symbol	PRKCE
NCBI Official Synonym Symbols	PKCE; nPKC-epsilon
NCBI Protein Information	protein kinase C epsilon type
UniProt Protein Name	Protein kinase C epsilon type
UniProt Gene Name	PRKCE
UniProt Synonym Gene Names	PKCE
UniProt Entry Name	KPCE_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/prkce-antibody-western-blot-immunofluorescence-immunocytochemistry-elisa/127039>