PKC α (Phospho Thr638) (PT0727R) PT™ Rabbit mAb

CatalogNo: YM8105 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,IP,ELISA

MW
- 77kD (Calculated)
115kD (Observed)

Isotype
- IgG, Kappa

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

IHC 1:1000-1:4000
WB 1:2000-1:10000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200

Basic Information

Clonality	Monoclonal
Clone Number	PT0727R

Immunogen Information

Immunogen	The specific immunogen used to produce this antibody is proprietary information.

Specificity Phospho-PKC α (T638) Antibody detects endogenous levels of PKC α protein only when phosphorylated at T638.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):VLtPP

Target Information

Gene name PRKCA

Protein Name Protein kinase C alpha type

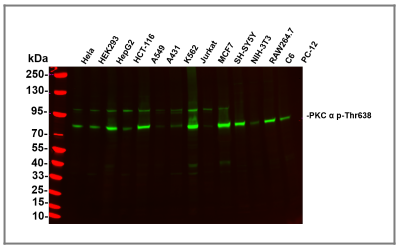
Organism	Gene ID	UniProt ID
Human	5578;	P17252;
Mouse	18750;	P20444;
Rat		P05696;

Cellular Localization Cytoplasm . Cell membrane ; Peripheral membrane protein . Mitochondrion membrane ; Peripheral membrane protein . Nucleus .

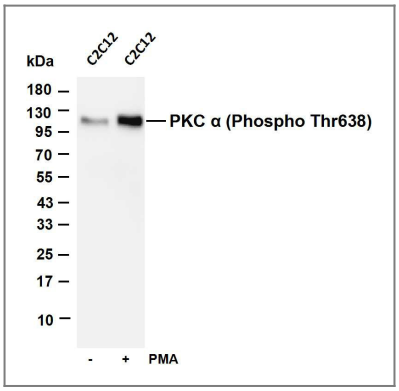
Tissue specificity Blood ,Brain ,Epithelium ,Lung ,Platelet ,

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,cofactor:Binds 3 calcium ions per subunit. The ions are bound to the C2 domain. ,Function: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. ,Function:This is a calcium-activated , phospholipid-dependent , serine- and threonine-specific enzyme. May play a role in cell motility by phosphorylating CSPG4. ,similarity:Belongs to the protein kinase superfamily. ,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily. ,similarity:Contains 1 AGC-kinase C-terminal domain. ,similarity:Contains 1 C2 domain. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 2 phorbol-ester/DAG-type zinc fingers. ,subunit:Interacts with ADAP1/CENTA1 , CSPG4 and PRKCABP. Binds to SDPR in the presence of phosphatidylserine. ,

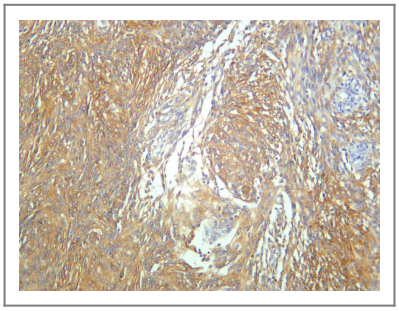
Validation Data



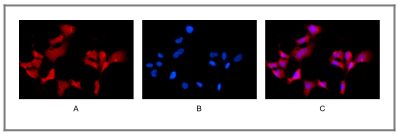
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4℃ over night with a 1:5000 dilution . The Dilight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: Hela - Human cervical cancer Lane2: HEK293 - Human normal embryonic kidney Lane3: HepG2 - Human hepatocellular carcinoma Lane4: HCT-116 - Human colon cancer Lane5: A549 - Human lung adenocarcinoma Lane6: A431 - Human skin squamous cell carcinoma Lane7: K562 - Human chronic myeloid leukemia Lane8: Jurkat - Human acute T cell leukemia cells Lane9: MCF7 - Human breast cancer Lane10: SH-SY5Y - Human neuroblastoma cells Lane11: NIH-3T3 - NIH mouse fibroblasts Lane12: RAW264.7 - Mouse mononuclear macrophage leukemia cells Lane13: C6 - Rat glioma cells Lane14: PC-12 - Pheochromocytoma in rats Predicted band size: 77-110kDa Observed band size: 80kDa



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PKC α (Phospho Thr638) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: C2C12 Lane 2: C2C12 was treated with Phorbol 12-myristate 13-acetate (200 nM) for 30 minutes Predicted band size: 77kDa Observed band size: 115kDa



Human meningioma was stained with anti-PKC α (Phospho Thr638) rabbit antibody



Immunofluorescence analysis of HEK293. Picture A:PKC α antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

Contact information

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Please scan the QR code to access additional product information: **PKC α (Phospho Thr638) (PT0727R) PT™ Rabbit mAb**