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Anti-PKC-α Rabbit mAb [17F22]

Catalog No.: A52277

Basic Information

Catalog No. (Cat.No.)	A52277
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	PKC-α,Protein kinase C alpha,PKC-alpha,PKCA

Product Information

Target	PKC-α
Molecular Weight(Calculated)	77 kDa
Molecular Weight(Observed)	77 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	17F22
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:2000-1:10000
IHC	1:500-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Protein kinase C-alpha
Gene Name	*PRKCA*
Domain	NA
Background	PRKCA (PKCα, protein kinase C alpha) belongs to conventional protein-kinase-C family and mediates Ca2+- and diacylglycerol-dependent signaling controlling proliferation, migration and apoptosis. In resting cells PKCα resides in cytosol. Elevated intracellular calcium together with DAG production drives PKCα plasma-membrane translocation and activation. Phosphorylation of downstream substrates transduces signals downstream of GPCR and growth-factor receptors. PKCα orchestrates cytoskeleton remodeling, cell adhesion and cell-cycle progression. Its biological output is context-dependent, promoting either proliferation or apoptosis. Altered PKCα expression and activity occur in tumorigenesis and cardiovascular diseases.