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PRODUCT DATASHEET

Anti-PKCα (Ser-657/Tyr-658), Phosphospecific Antibody

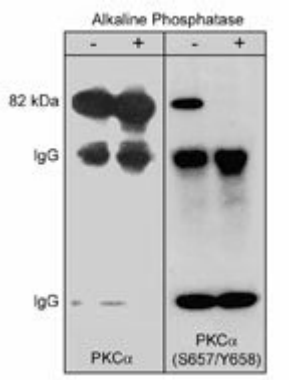
phosphosolutions ANTIBODIES THAT WORK

Product Details

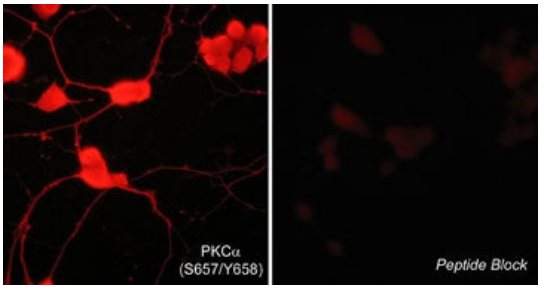
Available Variants	100 µL (SKU:PP1091)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	PRKCA
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, IP, WB
Dilution Ranges	WB: 1:1000 ICC: 1:100 IP: 1:100
Species Reactivity	Human, Mouse, Rat
Immunogen	Phospho-PKCα (Ser-657/Tyr-658) synthetic peptide corresponds to amino acid residues around serine 657 and tyrosine 658 of human PKCα. This sequence is similar to the conserved sites in rat and mouse, and has high homology to dual sites in human, rat, and mouse PKCβI (Ser-661/Tyr-662) and PKCγ (Thr-674/Tyr-675).
Specificity	This antibody detects an 82kDa* protein corresponding to the molecular mass of phosphorylated PKCα on SDS-PAGE immunoblots of neonatal rat brain lysate. Similar results were observed in human SKN-SH, endothelial, and HeLa cells, as well as rabbit spleen fibroblasts and rat pituitary cells. In immunoprecipitation experiments with various PKC isoforms, this antibody detected PKCα and PKCβ but not other PKC isoforms in rat brain lysate.
Molecular Weight	82

Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	P17252
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	S657/Y658

Product Images



Western blot analysis of immunoprecipitates from neonatal rat brain lysate using anti-PKCα antibody. Control and alkaline phosphatase treated precipitates were probed with anti-PKCα (Central region) or anti-phospho-PKCα (Ser-657/Tyr-658). The latter shows no detection of PKCα after phosphatase treatment.



Immunocytochemical labeling of PKC phosphorylation in aldehyde-fixed and NP-40-permeabilized NGF-differentiated PC12 cells. The cells were labeled with rabbit polyclonal anti-PKCα (Ser-657/Tyr-658) (PP1091) antibody in the absence (Left) or presence (Right) of blocking peptide (PX1095). The antibody was detected using appropriate secondary antibody conjugated to DyLight® 594.