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Product datasheet for TA336677

PKC alpha (PRKCA) Mouse Monoclonal Antibody [Clone ID: MC5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MC5
Applications:	ELISA, FC, ICC/IF, IHC, IP, WB
Recommended Dilution:	Flow Cytometry: 1:10-1:1000, ELISA: 1:100-1:2000, Immunohistochemistry: 1:200-1:500, Immunocytochemistry/ Immunofluorescence: 1:100-1:500, Immunoprecipitation: 1:10-1:100, Western Blot: 1:1000, Immunohistochemistry-Paraffin: 1:200-1:500, Immunohistochemistry- Frozen: 1:200-1:500, Radioimmunoassay
Reactivity:	Human, Mouse, Rat, Bovine, Canine, Fish, Porcine
Host:	Mouse
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	Purified bovine brain Protein Kinase C
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at - 20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	protein kinase C alpha
Database Link:	<u>NP_002728</u> <u>Entrez Gene 18750 MouseEntrez Gene 24680 RatEntrez Gene 5578 Human</u> <u>P17252</u>

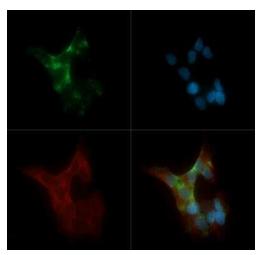


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PKC alpha (PRKCA) Mouse Monoclonal Antibody [Clone ID: MC5] – TA336677
Protein Kinase C (PKC) refers to a family of serine/threonine protein kinases grouped by their activation mechanisms. PKC alpha belongs to the conventional PKC group, alongside Beta-I, Beta-II, and Gamma, and is activated by phosphatidylserine in a calcium dependent manner. Furthermore, PKC alpha is localized to the membrane and cytoplasm, but in some cases can translocate to the nucleus. PKC alpha helps to positively and negatively regulate cell proliferation, apoptosis, differentiation, adhesion, and migration via phosphorylation of RAF1 BCL2, CSPG4, TNNT2/CTNT, or MAPK1/3. It also exhibits positive interactions with ADAP1/CENTA1, CSPG4 and PRKCABP. PKC alpha demonstrates anti-apoptotic function in glioma cells and protects them from apoptosis by suppressing the p53/TP53-mediated activation of IGFBP3 (PMCID: PMC1360842). Additional research has shown PKC alpha's involvement in cellular inflammation (PMCID: PMC3080812).
AAG6; PKC-alpha; PKCA; PRKACA
This PKC alpha Antibody (MC5) is useful for Western blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry on frozen and paraffin- embedded sections, Immunoprecipitation and Radioimmunoassay. In WB a band can be seen at ~75 kDa representing PKC alpha.
: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
vs: Calcium signaling pathway, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Leukocyte transendothelial migration, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Natural killer cell mediated cytotoxicity, Non-small cell lung cancer, Pathogenic Escherichia coli infection, Pathways in cancer, Phosphatidylinositol signaling system, Tight junction, Wnt signaling pathway

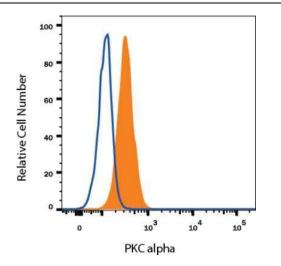
Product images:

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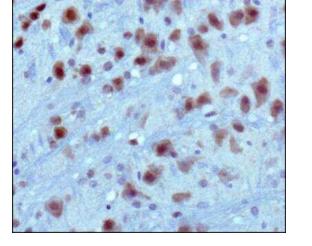


Immunocytochemistry/Immunofluorescence: PKC alpha Antibody (MC5) TA336677 - PKC alpha (MC5) antibody was tested in SH-SY5Y cells with DyLight 488 (green). Nuclei and beta-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).

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Flow Cytometry: PKC alpha Antibody (MC5) TA336677 - Detection of PKC alpha in Human HeLa Cell Line by Flow Cytometry. Human HeLa cell line was stained with Mouse Anti- PKC alpha Monoclonal Antibody (Catalog # TA336677, filled histogram), or Mouse IgG2A isotype control (Catalog # MAB003, open histogram) followed by APC-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). Images may not be copied, printed or otherwise disseminated without express written permission of Novus Biologicals a bio-techne brand.



Immunohistochemistry-Paraffin: PKC alpha Antibody (MC5) TA336677 - IHC staining of PKC alpha in mouse brain using DAB with hematoxylin counterstain.

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