



# Rabbit Anti-PKC alpha monoclonal antibody, clone TV42-19 (CABT-L639)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	PKC alpha
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Clone</b>	TV42-19
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC/IF, IHC, IP, FC
<b>Molecular Weight</b>	75 kDa
<b>Cellular Localization</b>	Cytoplasm, Nucleus, Cell membrane, Mitochondrion membrane.
<b>Positive Control</b>	K562, MCF-7, Hela, CRC, A549, PC12, mouse brain tissue, mouse small intestine tissue, mouse heart tissue, human lung tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.

<b>Preservative</b>	0.05% Sodium Azide
<b>Storage</b>	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

## BACKGROUND

<b>Introduction</b>	Members of the protein kinase C (PKC) family play a key regulatory role in a variety of cellular functions including cell growth and differentiation, gene expression, hormone secretion and membrane function. PKCs were originally identified as serine/threonine protein kinases whose activity was dependent on calcium and phospholipids. Diacylglycerols (DAG) and tumor-promoting phorbol esters bind to and activate PKC. PKCs can be subdivided into many different isoforms. Patterns of expression for each PKC isoform differ among tissues and PKC family members exhibit clear differences in their cofactor dependencies. For instance, the kinase activities of PKC and $\epsilon$ are independent of $Ca^{2+}$ . On the other hand, most of the other PKC members possess phorbol ester-binding activities and kinase activities.
<b>Keywords</b>	AAG6;Aging associated gene 6;aPKC;KPCA_HUMAN;PKC alpha;PKC-A;PKC-alpha;PKCA;PRKACA;PRKCA;Protein Kinase C alpha;Protein kinase C alpha type antibody