

Anti-PKC α (Central region) Antibody Catalog # AN1904

Specification

Anti-PKC α (Central region) Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	P17252
Reactivity	Bovine
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG2b
Calculated MW	76750

Anti-PKC α (Central region) Antibody - Additional Information

Gene ID	5578
Other Names	
PKC alpha	

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-PKC α (Central region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

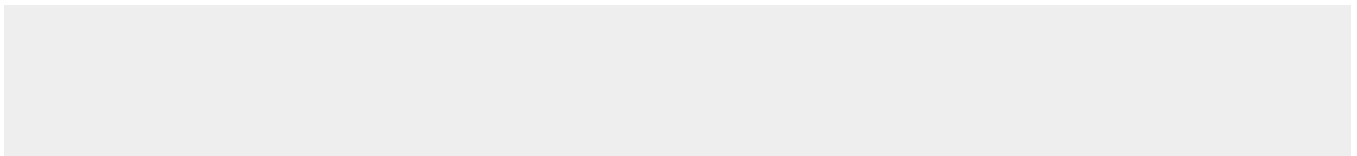
Blue Ice

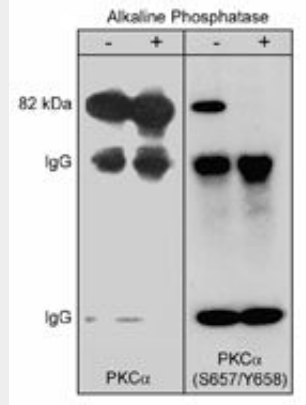
Anti-PKC α (Central region) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

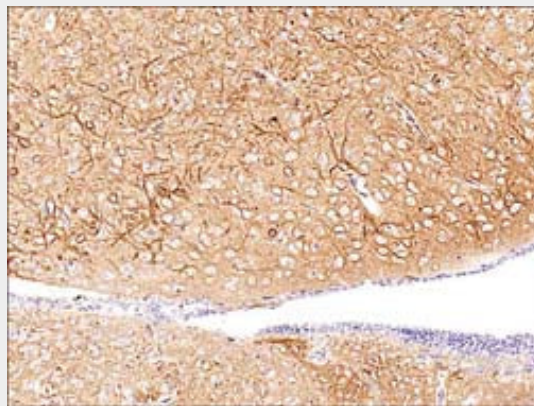
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PKC α (Central region) Antibody - Images





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



Formalin fixed, citric acid treated paraffin sections of adult mouse brain. Sections were probed with anti-PKC α (PM2371) then anti-mouse:HRP before detection using DAB. (Image provided by Carl Hobbs and Dr. Pat Doherty at Wolfson Centre for Age-Related Diseases, King's College London).

Anti-PKC α (Central region) Antibody - Background

The Protein Kinase C (PKC) family of homologous serine/threonine protein kinases is involved in a number of processes such as growth, differentiation, and cytokine secretion. At least eleven isozymes have been described. PKC consists of a single polypeptide chain containing four conserved regions (C) and five variable regions (V). The N-terminal half interacts with PKC activators Ca²⁺, phospholipid, diacylglycerol, or phorbol ester, while the C-terminal half contains the catalytic domain. The conventional PKC subfamily (α , β 1, β II, and γ) is regulated by both Ca²⁺ and diacylglycerol. The PKC pathway represents a major signal transduction system that is activated following ligand-stimulation of transmembrane receptors by hormones, neurotransmitters and growth factors. The phosphorylation of multiple sites in conventional PKCs regulates their activity. In mast cells, Fc ϵ RI stimulation leads to phosphorylation of tyrosine 658 and 662 of PKC α and PKC β I respectively. This phosphorylation requires autophosphorylation of serine 657 and 661 in these respective kinases.