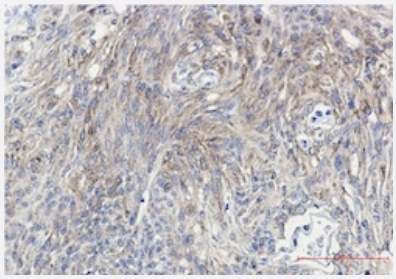
RecomAb™

PRKCG (phospho Thr514) recombinant monoclonal antibody, clone R02-4F3

Catalog # RAB01997 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin/PFA-fixed paraffin-embedded sections) of human brain with PRKCG (phospho Thr514) recombinant monoclonal antibody, clone R02-4F3 (Cat # RAB01997).
High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western Blot

Western blot analysis of Lane 1: C6 and Lane 2: Hela lysates with PRKCG (phospho Thr514) recombinant monoclonal antibody, clone R02-4F3 (Cat # RAB01997).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PRKCG.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding Thr514 of human PRKCG.
Theoretical MW (kDa)	Calculated MW: 78 kD
Reactivity	Human, Mouse, Rat

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Form	Liquid
Preparation Method	Mammalian cell (CHO) expression system
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA).
Storage Instruction	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin/PFA-fixed paraffin-embedded sections) of human brain with PRKCG (phospho Thr514) recombinant monoclonal antibody, clone R02-4F3 (Cat # RAB01997).
  High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

- Immunoprecipitation

- Western Blot

  Western blot analysis of Lane 1: C6 and Lane 2: Hela lysates with PRKCG (phospho Thr514) recombinant monoclonal antibody, clone R02-4F3 (Cat # RAB01997).

Gene Info — PRKCG

Entrez GeneID	5582
Protein Accession#	P05129
Gene Name	PRKCG
Gene Alias	MGC57564, PKC-gamma, PKCC, PKCG, SCA14
Gene Description	protein kinase C, gamma

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Omim ID	176980 605361
Gene Ontology	Hyperlink
Gene Summary	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be a ctivated by calcium and second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play distinct roles in cells. T he protein encoded by this gene is one of the PKC family members. This protein kinase is expres sed solely in the brain and spinal cord and its localization is restricted to neurons. It has been dem onstrated that several neuronal functions, including long term potentiation (LTP) and long term dep ression (LTD), specifically require this kinase. Knockout studies in mice also suggest that this kin ase may be involved in neuropathic pain development. Defects in this protein have been associat ed with neurodegenerative disorder spinocerebellar ataxia-14 (SCA14). [provided by RefSeq
Other Designations	-

Pathway

- Calcium signaling pathway
- ErbB signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Gap junction
- Glioma
- Leukocyte transendothelial migration
- Long-term depression
- Long-term potentiation
- MAPK signaling pathway
- Melanogenesis
- Natural killer cell mediated cytotoxicity
- Non-small cell lung cancer
- Pathways in cancer
- Phosphatidylinositol signaling system

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- Tight junction
- Vascular smooth muscle contraction
- VEGF signaling pathway
- Vibrio cholerae infection
- Wnt signaling pathway

Disease

- Antisocial Personality Disorder
- Attention Deficit Disorder with Hyperactivity
- Cardiovascular Diseases
- Conduct Disorder
- Depressive Disorder
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Inhibition (Psychology)
- Liver Cirrhosis
- Spinocerebellar ataxia
- Spinocerebellar Ataxias
- Substance-Related Disorders

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