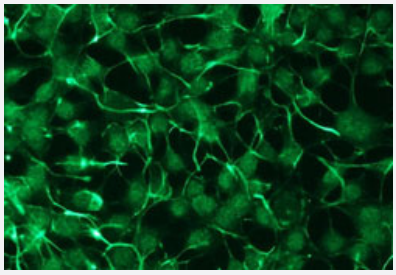
PRKCZ monoclonal antibody, clone R14-K

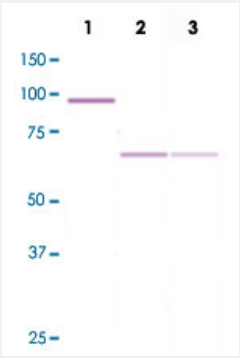
Catalog # MAB15905 Size 50 uL

Applications



Immunocytochemistry

Immunocytochemical staining of HEK293 cells with PRKCZ monoclonal antibody, clone R14-K (Cat # MAB15905) at 1:200 dilution.



Western Blot

Western Blot analysis of Lane 1: PRKCZ recombinant protein, Lane 2: mouse brain crude lysate and Lane 3: rat brain crude lysate with PRKCZ monoclonal antibody, clone R14-K (Cat # MAB15905).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human PRKCZ.
Immunogen	A synthetic peptide corresponding to amino acids 220-231 at internal region of human PRKCZ.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	EVAC purification

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Isotype	IgG
Recommend Usage	ELISA (1:20000-1:100000) Immunocytochemistry Immunoprecipitation Western Blot (1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM Tris-HCl buffer, pH 8.0 (10 mg/mL BSA, 0.05% Sodium Azide).
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

- Immunocytochemistry

  Immunocytochemical staining of HEK293 cells with PRKCZ monoclonal antibody, clone R14-K (Cat # MAB15905) at 1:200 dilution.

- Enzyme-linked Immunoabsorbent Assay

- Immunoprecipitation

- Western Blot

  Western Blot analysis of Lane 1: PRKCZ recombinant protein, Lane 2: mouse brain crude lysate and Lane 3: rat brain crude lysate with PRKCZ monoclonal antibody, clone R14-K (Cat # MAB15905).

Gene Info — PRKCZ

Entrez GeneID	5590
Protein Accession#	Q05513
Gene Name	PRKCZ
Gene Alias	PKC-ZETA, PKC2
Gene Description	protein kinase C, zeta
Omim ID	176982

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Gene Ontology	Hyperlink
Gene Summary	Protein kinase C (PKC) zeta is a member of the PKC family of serine/threonine kinases which are involved in a variety of cellular processes such as proliferation, differentiation and secretion. Unlike the classical PKC isoenzymes which are calcium-dependent, PKC zeta exhibits a kinase activity which is independent of calcium and diacylglycerol but not of phosphatidylserine. Furthermore, it is insensitive to typical PKC inhibitors and cannot be activated by phorbol ester. Unlike the classical PKC isoenzymes, it has only a single zinc finger module. These structural and biochemical properties indicate that the zeta subspecies is related to, but distinct from other isoenzymes of PKC. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq
Other Designations	OTTHUMP00000001368|OTTHUMP00000044160

Publication Reference

- Sequestosome 1/p62 facilitates HER2-induced mammary tumorigenesis through multiple signaling pathways.

  Cai-McRae X, Zhong H, Karantza V.

  Oncogene 2015 Jun; 34(23):2968.

  Application: WB-Tr, Mouse, Immortalized mouse mammary epithelial cells

Pathway

- Chemokine signaling pathway
- Endocytosis
- Insulin signaling pathway
- Tight junction
- Type II diabetes mellitus

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease

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