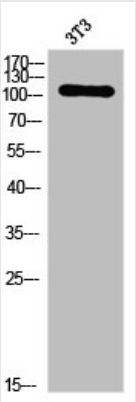
PRKD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRKD1, Polyclonal Antibody
Full Product Name	Phospho-PRKD1 (S205) Antibody
Product Gene Name	anti-PRKD1 antibody
Product Synonym Names	PRKD1; PKD; PKD1; PRKCM; Serine/threonine-protein kinase D1; Protein kinase C mu type; Protein kinase D; nPKC-D1; nPKC-mu
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	101,704 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (30045685..30396899, complement). Location: 14q11
OMIM	605435
3D Structure	ModBase 3D Structure for Q15139
Immunogen	Synthesized peptide derived from human PKD1 around the phosphorylation site of S205.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-PRKD1 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PRKD1 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-PRKD1 antibody	WB: 1:500-1:2000 IHC: 1:100-1:300 ELISA: 1:40000
Related Product Information for anti-PRKD1 antibody	MBS7118541 is an antibody targeting PRKD1. Also known as Phospho-PRKD1 (S205) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-PRKD1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PRKD1 antibody
Western Blot analysis of 3T3 cells using Phospho-PKD1 (S205) Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRKD1. It may not necessarily be applicable to this product.

NCBI GI #	115529463
NCBI GeneID	5587
NCBI Accession #	NP_002733.2
UniProt Primary Accession #	Q15139
UniProt Secondary Accession #	A6NL64; B2RAF6
UniProt Related Accession #	Q15139
GenBank Nucleotide #	NM_002742.2
NCBI Official Full Name	serine/threonine-protein kinase D1
NCBI Official Synonym Full Names	protein kinase D1
NCBI Official Symbol	PRKD1
NCBI Official Synonym Symbols	PKD; PKCM; PRKCM; PKC-MU
UniProt Protein Name	Serine/threonine-protein kinase D1
UniProt Synonym Protein Names	Protein kinase C mu type; Protein kinase D; nPKC-D1; nPKC-mu
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	PRKD1
UniProt Synonym Gene Names	PKD; PKD1; PRKCM
UniProt Entry Name	KPCD1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase D1; nPKC-D1; nPKC-mu; protein kinase C, mu; protein kinase C mu type
NCBI Summary for PRKD1	PRKD1 is a serine/threonine kinase that regulates a variety of cellular functions, including membrane receptor signaling, transport at the Golgi, protection from oxidative stress at the mitochondria, gene transcription, and regulation of cell shape, motility, and adhesion (summary by Eiseler et al., 2009 [PubMed 19329994]).[supplied by OMIM, Nov 2010]

UniProt Comments for PRKD1	PRKD1: a CAMK kinase of the PKD family. Cleavage by caspase-3 following DNA damage activates it and alters its subcellular localization. Sensitizes cells to apoptosis induced by genotoxic stress. Its cleavage is blocked in cells that over-express the anti-apoptotic Bcl-x(L) protein. Expression of a caspase-resistant mutant partially inhibits DNA damage-induced apoptosis. Its activation by TLR ligands is dependent on MyD88, IRAK4 and -1, but not TRAF6. Essential for MyD88-dependent proinflammatory immune responses. Activated by diacylglycerol and phorbol esters. Binds to the trans-Golgi network and regulates the fission of transport carriers specifically destined to the cell surface. Colocalizes with F-actin at peripheral F-actin-rich structures in membrane ruffles at the edge of lamellipodia in cervical carcinoma cells. Substrates reportedly include critical regulatory proteins including CREB, SSH1L, CTNNB1, HDACs 5 and 7, PKD1, HPK1, MARK2, PIP5K2A, PPP1R14A Protein type: Kinase, protein; Autophagy; Protein kinase, CAMK; Protein kinase, Ser/Thr (non-receptor); Motility/polarity/chemotaxis; EC 2.7.11.13; CAMK group; PKD family Chromosomal Location of Human Ortholog: 14q11 Cellular Component: integral to plasma membrane; cytoplasm; plasma membrane; intercellular junction; trans-Golgi network; cell cortex; nucleus; cytosol Molecular Function: identical protein binding; protein serine/threonine kinase activity; protein binding; protein kinase C activity; metal ion binding; ATP binding Biological Process: integrin-mediated signaling pathway; sphingolipid metabolic process; positive regulation of I-kappaB kinase/NF-kappaB cascade; sphingolipid biosynthetic process; apoptosis; protein amino acid autophosphorylation; negative regulation of endocytosis; positive regulation of blood vessel endothelial cell migration; activation of CREB transcription factor; signal transduction; positive regulation of peptidyl-serine phosphorylation; activation of NF-kappaB transcription factor; Golgi vesicle transport; cell proliferation; positive regulation of osteoblast differentiation; peptidyl-serine phosphorylation; positive regulation of angiogenesis; innate immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of endothelial cell proliferation; angiogenesis; vascular endothelial growth factor receptor signaling pathway; inflammatory response; Golgi organization and biogenesis
Research Articles on PRKD1	**1.** Neuregulin mediates F-actin-driven cell migration through inhibition of protein kinase D1 via Rac1 protein
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