PRKD3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PRKD3, Monoclonal Antibody
Full Product Name	PRKD3 (Serine/Threonine-protein Kinase D3, Protein Kinase C nu Type, Protein Kinase EPK2, nPKC-nu, EPK2, PRKCN) (MaxLight 750)
Product Gene Name	anti-PRKD3 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4G7
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PRKD3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	68,123 Da
Immunogen	Partial recombinant corresponding to aa1-100 from PRKD3 (AAH30706) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MSANNSPPSAQKSVLPTAIPAVLPAASPCSSPKTGLSARLSNGSFSAPSLTNSRGSVHTVSFLLQIGLTRESVTIEAQELSLSAVKDLVCSIVYQKFPEC
Conjugate	MaxLight750
Product Categories/Family for anti-PRKD3 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-PRKD3 antibody	FLISA, Western Blot (WB)
Application Notes for anti-PRKD3 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-PRKD3 antibody	Protein kinase D (PKD), a serine/threonine kinase originally described as a novel PKC family member and termed PKCm, belongs to the calcium calmodulin superfamily of kinases. Three mammalian isoforms have so far been described - PKD1/PKCm, PKD2 and PKD3/PKCn; these isoforms show a high degree of homology, especially in their catalytic domain. PKDs are major targets for tumor promoting phorbol esters; they are activated via G protein-coupled receptors (GPCRs) and their activation is also dependent on PKC activation. PKDs have been implicated in numerous cellular functions, including signal transduction as well as cell survival, migration, differenciation, and proliferation. They are important regulators of secretary transport at the trans- golgi network. Of the three isoforms, PKD1 is the best characterized. It is involved in the regulation of Golgi function, cell proliferation and apoptosis and it mediates oxidative stress signaling regulating cellular detoxification and survival. PKD2 has been found to phosphorylate histone H1 more efficiently than aldolase in vitro. PKD3 plays a role in the formation of vesicular transport carriers at the trans-Golgi network (TGN) and in basal glucose transport in vitro studies.
Other Notes	Small volumes of anti-PRKD3 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.
Searchable Terms for PRKD3 purchase	MBS6234701 is an antibody targeting PRKD3. Also known as PRKD3 (Serine/Threonine-protein Kinase D3, Protein Kinase C nu Type, Protein Kinase EPK2, nPKC-nu, EPK2, PRKCN) (MaxLight 750). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRKD3. It may not necessarily be applicable to this product.

NCBI GI #	34783221
NCBI GeneID	23683
NCBI Accession #	BC030706
NCBI Related Accession #	AAH30706
UniProt Secondary Accession #	Q53TR7; Q8NEL8; D6W587
UniProt Related Accession #	O94806
NCBI Official Full Name	Homo sapiens protein kinase D3, mRNA
NCBI Official Synonym Full Names	protein kinase D3
NCBI Official Symbol	PRKD3
NCBI Official Synonym Symbols	EPK2; PKD3; PRKCN; PKC-NU; nPKC-NU
Protein Family	Serine/threonine-protein kinase
NCBI Protein Information	serine/threonine-protein kinase D3
NCBI Summary for PRKD3	This gene belongs to the multigene protein kinase D family of serine/threonine kinases, which bind diacylglycerol and phorbol esters. Members of this family are characterized by an N-terminal regulatory domain comprised of a tandem repeat of cysteine-rich zinc-finger motifs and a pleckstrin domain. The C-terminal region contains the catalytic domain and is distantly related to calcium-regulated kinases. Catalytic activity of this enzyme promotes its nuclear localization. This protein has been implicated in a variety of functions including negative regulation of human airway epithelial barrier formation, growth regulation of breast and prostate cancer cells, and vesicle trafficking. [provided by RefSeq, Jan 2015]
Research Articles on PRKD3	**1.** Studies indicate that the loss of protein kinase D PKD1 is thought to promote invasion and metastasis, while PKD2 and upregulated PKD3 to be positive regulators of proliferation.
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