PRKG2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRKG2, Polyclonal Antibody
Full Product Name	PRKG2, CT (cGMP-dependent Protein Kinase 2, cGK 2, cGK2, cGMP-dependent Protein Kinase II, cGKII, PRKGR2) (MaxLight 550)
Product Gene Name	anti-PRKG2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human cGKII.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	87,432 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (82009837..82126215, complement). Location: 4q13.1-q21.1
OMIM	601591
3D Structure	ModBase 3D Structure for Q13237
Immunogen	Synthetic peptide selected from the C-terminal region of human cGKII (KLH).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-PRKG2 antibody	Antibodies; Protein Kinase Substrates
Applications Tested/Suitable for anti-PRKG2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-PRKG2 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-PRKG2 antibody	MBS6495319 is an antibody targeting PRKG2. Also known as PRKG2, CT (cGMP-dependent Protein Kinase 2, cGK 2, cGK2, cGMP-dependent Protein Kinase II, cGKII, PRKGR2) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PRKG2 antibody	1. Vaandrager, A.B., et al., J. Biol. Chem. 278(31):28651-28658 (2003). 2. Gambaryan, S., et al., Biochem. Biophys. Res. Commun. 293(5):1438-1444 (2002). 3. Orstavik, S., et al., Biochem. Biophys. Res. Commun. 220(3):759-765 (1996). 4. Fujii, M., et al., FEBS Lett. 375(3):263-267 (1995). 5. Hema Rangaswami, et al. J. Biol. Chem., Vol. 284, Issue 22, 14796-14808. (Applications: WB).

Other Notes	Small volumes of anti-PRKG2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRKG2. It may not necessarily be applicable to this product.

NCBI GI #	5453978
NCBI GeneID	5593
NCBI Accession #	NP_006250.1
UniProt Primary Accession #	Q13237
UniProt Secondary Accession #	O00125; O60916
UniProt Related Accession #	Q13237
GenBank Nucleotide #	NM_006259.1
NCBI Official Full Name	cGMP-dependent protein kinase 2
NCBI Official Synonym Full Names	protein kinase, cGMP-dependent, type II
NCBI Official Symbol	PRKG2
NCBI Official Synonym Symbols	cGKII; PRKGR2
UniProt Protein Name	cGMP-dependent protein kinase 2
UniProt Synonym Protein Names	cGMP-dependent protein kinase II
Protein Family	cGMP-dependent protein kinase
UniProt Gene Name	PRKG2
UniProt Synonym Gene Names	PRKGR2; cGK 2; cGK2; cGKII
UniProt Entry Name	KGP2_HUMAN
NCBI Protein Information	cGMP-dependent protein kinase 2; cGK2; cGK 2; cGMP-dependent protein kinase II
NCBI Summary for PRKG2	This gene encodes a protein that belongs to the serine/threonine protein kinase family of proteins. The encoded protein plays a role in the regulation of fluid balance in the intestine. A similar protein in mouse is thought to regulate differentiation and proliferation of cells in the colon. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]
UniProt Comments for PRKG2	PKG2: an AGC kinase of the PKG family. Type II cGMP-dependent protein kinase is expressed at high levels in brain, lung and intestinal mucosa. Protein type: Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.12; Kinase, protein; Protein kinase, AGC; AGC group; PKG family Chromosomal Location of Human Ortholog: 4q13.1-q21.1 Cellular Component: nuclear membrane; apical plasma membrane; cytosol Molecular Function: protein homodimerization activity; cGMP-dependent protein kinase activity; cGMP binding; ATP binding; protein kinase activity Biological Process: circadian regulation of gene expression; regulation of nitric-oxide synthase activity; signal transduction; blood coagulation; protein amino acid phosphorylation; nitric oxide metabolic process
Research Articles on PRKG2	**1.** type II cGMPdependent protein kinase prevented the EGF-induced phosphorylation/activation of ERK and JNK, but not the phosphorylation of p38MAPK induced by EGF.

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