CGK 2 (CGK2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CGK 2 (CGK2), Polyclonal Antibody
Full Product Name	CGK 2 Antibody
Product Gene Name	anti-CGK2 antibody
Product Synonym Names	cGMP-dependent protein kinase 2; EC 2.7.11.12; CGK 2; Cgkii; Type II cGMP-dependent protein kinase
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total CGK protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
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	Synthesized peptide derived from internal of human CGK 2.
Product Categories/Family for anti-CGK2 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CGK2 antibody	Western Blot (WB)
Application Notes for anti-CGK2 antibody	WB: 1:500~1:3000
Related Product Information for anti-CGK2 antibody	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.Orstavik S., Biochem. Biophys. Res. Commun. 220:759-765 (1996).Fujii M., FEBS Lett. 375:263-267 (1995).Witczak O., Biochem. Biophys. Res. Commun. 245:113-119 (1998)
Other Notes	Small volumes of anti-CGK2 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 CGK2 purchase	MBS8587445 is an antibody targeting CGK2. Also known as CGK 2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CGK2. 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 CGK2	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 CGK2	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 CGK2	**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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