

Product Data Sheet

Recombinant Human PRKG1 Protein

Catalog #	Source	Reactivity	Applications
CRP2159	Human cells	H	E, WB, SDS-PAGE, MS
Description	Recombinant Human PRKG1 Protein is produced by mammalian expression system and the target gene encoding Gly2-Pro686 is expressed with a 6His tag at the C-terminus.		
Form	Liquid in a 0.2 µM filtered solution of 20mM Tris, 150mM NaCl, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, 20% glycerol, pH8.0.		
Gene Symbol	PRKG1		
Alternative Names	PRKG1B; PRKGR1A; PRKGR1B; cGMP-dependent protein kinase 1; cGK 1; cGK1; cGMP-dependent protein kinase I; cGKI		
Entrez Gene	5592 (Human)		
SwissProt	Q13976 (Human)		
Purity	Greater than 95% as determined by reducing SDS-PAGE.		
Chemical Structure	MGTLRDLQYA LQEKIEELRQ RDALIDELEL ELDQKDELIQ KLQNELDKYR SVIRPATQQA QKQSASTLQG EPRTKRQAIS AEPTAFDIQD LSHVTLPFYP KSPQSKDLIK EAILDNDFMK NLELSQIQEI VDCMYPVEYG KDSCIIKEGD VGSLVYVMED GKVEVTKEGV KLCTMGPGKV FGELAILYNC TRTATVKTLV NVKLWAIDRQ CFQTIMMRTG LIKHTEYMEF LKSVPTFQSL PEEILSKLAD VLEETHYENG EYIIRQGARG DTFFIISKGT VNVTTREDSPS EDPVFLRTL KGDWFGKAL QGEDVRTANV IAAEAVTCLV IDRDSFKHLI GGLDDVSNKA YEDAEAKAKY EAEAAFFANL KLSDFNIIDT LGVGGFGRVE LVQLKSEESK TFAMKILKKR HIVDTRQQEH IRSEKQIMQG AHSDFIVRLY RTFKDSKYLY MLMEACLGGE LWTILRDRGS FEDSTTRFYT ACVVEAFAYL HSKGIIYRDL KPENLILDHR GYAKLVDFGF AKKIGFGKKT WFTCGTPEYV APEILNKGH DISADYWSLG ILMYELLTGS PPFGPDPMK TYNILRGID MIEFPKKIAK		

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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NAANLIKKLC RDNPSERLGN LKNGVKDIQK HKWFEGFNWE GLRKGTLTTP IIPSVASPTD
TSNFDSFPED NDEPPPDDNS GWDIDFVDHH HHHH

Quality Control

Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.

Directions for Use

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Storage/Stability

Store it at -20°C to -80°C for one year. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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