

bs-6705R**[Primary Antibody]****cGKI Rabbit pAb****BioSS**
ANTIBODIES

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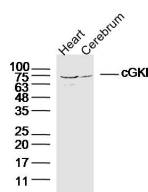
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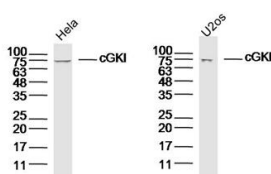
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— DATASHEET —

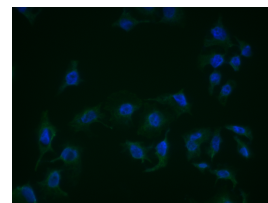
Host: Rabbit Clonality: Polyclonal GeneID: 5592 Target: cGKI Immunogen: KLH conjugated synthetic peptide derived from human Prkg1/cGKI: 551-650/671. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the γ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. PKG plays an important stimulatory role in platelet activation.	Isotype: IgG SWISS: Q13976	Applications: WB (1:500-2000) ICC/IF (1:50-200) Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Dog, Horse) Predicted MW.: 74 kDa Subcellular Location: Cytoplasm
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— VALIDATION IMAGES —

Sample: Heart (Mouse) Lysate at 40 ug Cerebrum (Mouse) Lysate at 40 ug
 Primary: Anti-cGKI (bs-6705R) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 74 kD Observed band size: 74 kD



Sample: HeLa Cell Lysate at 40 ug U2OS Cell Lysate at 40 ug
 Primary: Anti-cGKI (bs-6705R) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 74 kD Observed band size: 74 kD



HeLa cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (cGKI) polyclonal Antibody, Unconjugated (bs-6705R) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

— SELECTED CITATIONS —

- **[IF=11.15]** Liu, Yiwei. et al. An electrochemical nitric oxide generator for in-home inhalation therapy in pulmonary artery hypertension. BMC MED. 2022 Dec;20(1):1-13 WB ;Pig. 36522645
- **[IF=3.994]** Huan X et al. PDE9 inhibition promotes proliferation of neural stem cells via cGMP-PKG pathway following oxygen-glucose deprivation/reoxygenation injury in vitro. Neurochem Int. 2020 Feb;133:104630. WB ;Rat. 31821840
- **[IF=3.921]** Huan Xiao. et al. Gastrodin promotes hippocampal neurogenesis via PDE9-cGMP-PKG pathway in mice following cerebral ischemia. Neurochem Int. 2021 Nov;150:105171 WB ;Mouse. 34419525

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.