

## PKG Polyclonal Antibody

<b>CATALOG #:</b>	3452-100
<b>AMOUNT:</b>	100 µg
<b>LOT #:</b>	_____
<b>HOST:</b>	Rabbit
<b>IMMUNOGEN:</b>	Synthetic peptide near the N-terminus of human PKG (Internal ID# BV-D64G).
<b>SPECIES REACTIVITY:</b>	human, mouse, rat, bovine

### FORMULATION:

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

### STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

### BACKGROUND:

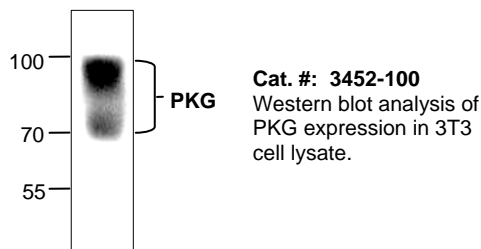
PKGs are cyclic GMP-dependent protein kinases (also designed cGKs) that are classified into two types, PKGI and PKGII. Studies have shown that cGKs and cyclic AMP-dependent kinases (cAKs) are highly homologous protein kinase families with similar substrate specificities. Phosphorylation of cellular proteins by both families of kinases leads to alterations in calcium mobilization, protein phosphatase activity, ion channel function, gene transcription, smooth muscle contractility and platelet aggregation. However, recent studies using mice deficient in PKGs have shown that cGMP kinases regulate very specifically distinct pathways which are separate from those used by cyclic AMP kinases.

### SPECIFICITY:

The antibody recognizes 75 and 85 kDa PKG, corresponding to the molecular mass of two PKG isoforms.

### APPLICATION:

The antibody can be used for Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide (Cat.# 3452BP-50) is available separately.



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