**bs-9446R** **[ Primary Antibody ]**

# PRKAG2 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 51422 **SWISS:** Q9UGJ0

**Target:** PRKAG2

**Immunogen:** KLH conjugated synthetic peptide derived from human PRKAG2: 265-370/569.

**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:** AMPK is a heterotrimeric complex comprising a catalytic a subunit and regulatory b and g subunits. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. AMPK is activated by high AMP and low ATP through a mechanism involving allosteric regulation, promotion of phosphorylation by an upstream protein kinase known as AMPK kinase and inhibition of dephosphorylation. Activated AMPK can phosphorylate and regulate in vivo hydroxy-methylglutaryl-CoA reductase and acetyl-CoA carboxylase, which are key regulatory enzymes of sterol synthesis and fatty acid synthesis, respectively. The human AMPKa1 and AMPKa2 genes encode 548 amino acid and 552 amino acid proteins, respectively. Human AMPKb1 encodes a 271 amino acid protein and human AMPKb2 encodes a 272 amino acid protein. The human AMPKg1 gene encodes a 331 amino acid protein. Human AMPKg2 and AMPKg3, which are 569 and 492 amino acid proteins, respectively, contain unique N-terminal domains and may participate directly in the binding of AMP within the AMPK complex.

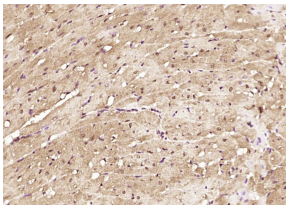
**Applications:** **IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:50-200)

**Reactivity:** Rat (predicted: Human, Mouse, Pig, Cow, Chicken, Dog, Horse)

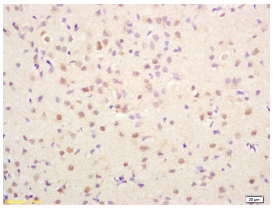
**Predicted MW.:** 63 kDa

**Subcellular Location:** Cytoplasm ,Nucleus

## VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PRKAG2) Polyclonal Antibody, Unconjugated (bs-9446R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PRKAG2/AMPKγ2 Polyclonal Antibody, Unconjugated(bs-9446R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining