

bs-0682R**[Primary Antibody]****Bioss**
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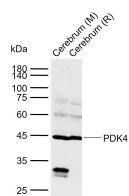
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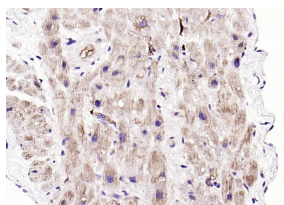
400-901-9800

PKD4 Rabbit pAb**— DATASHEET —**

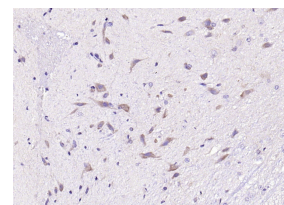
Host: Rabbit Clonality: Polyclonal GeneID: 5166 Target: PDK4 Immunogen: KLH conjugated synthetic peptide derived from human Pdk4: 311-411/411. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: This gene is a member of the PDK/BCKDK protein kinase family and encodes a mitochondrial protein with a histidine kinase domain. This protein is located in the matrix of the mitochondria and inhibits the pyruvate dehydrogenase complex by phosphorylating one of its subunits, thereby contributing to the regulation of glucose metabolism. Expression of this gene is regulated by glucocorticoids, retinoic acid and insulin. [provided by RefSeq, Jul 2008].	Isotype: IgG SWISS: Q16654	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse, Rat Predicted MW.: 47 kDa Subcellular Location: Cell membrane ,Cytoplasm
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— VALIDATION IMAGES —

Sample: Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Rat Cerebrum tissue lysates
Primary: Anti-PDK4 (bs-0682R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 47 kDa
Observed band size: 45 kDa



Paraformaldehyde-fixed, paraffin embedded (human myocardium); 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 (PDK4) Polyclonal Antibody, Unconjugated (bs-0682R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); 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 (PDK4) Polyclonal Antibody, Unconjugated (bs-0682R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=6.5]** Yang Fan. et al. Identifying oxidative stress-related biomarkers in idiopathic pulmonary fibrosis in the context of predictive, preventive, and personalized medicine using integrative omics approaches and machine-learning strategies. EPMA Journal. 2023 Jul;:1-26 WB ;Rat. 10.1007/s13167-023-00334-4
- **[IF=6.9]** Liang Song. et al. High-fat intake during lactation ameliorates cardiac fatty acid metabolic disorders and dysfunction in mouse offspring undergoing prenatal poly (I:C) stimulation. ACTA PHARMACOLOGICA SINICA. 2025 Feb 25. Western Blot ;Mouse. 10.1038/s41401-025-01497-8