

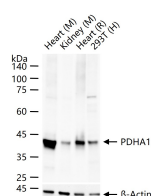
**bsm-60685R****[ Primary Antibody ]****Bioss**  
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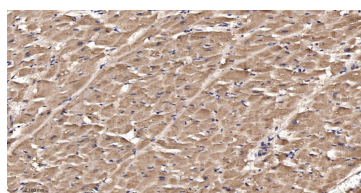
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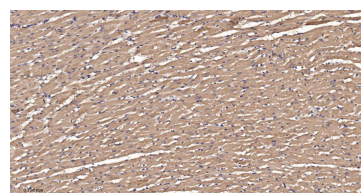
400-901-9800

**PDHA1 Recombinant Rabbit mAb****— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** R9B7**GeneID:** 5160**SWISS:** P08559**Target:** PDHA1**Immunogen:** A synthesized peptide derived from human PDHA1: 100-150.**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:** The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO<sub>2</sub>, and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase(E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 alpha 1 subunit containing the E1 active site, and plays a key role in the function of the PDH complex. Mutations in this gene are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.**Applications:** **WB** (1:500-2000)  
**IHC-P** (1:100-500)  
**IHC-F** (1:100-500)  
**IF** (1:100-500)  
**ICC/IF** (1:50-200)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 43 kDa**Subcellular Location:** Cytoplasm**— VALIDATION IMAGES —**

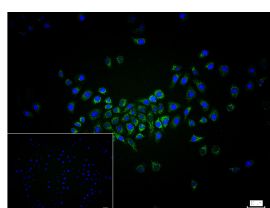
25 ug total protein per lane of various lysates (see on figure) probed with PDHA1 monoclonal antibody, unconjugated (bsm-60685R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with PDHA1 Monoclonal Antibody, Unconjugated (bsm-60685R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with PDHA1 Monoclonal Antibody, Unconjugated (bsm-60685R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed HepG2 (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (PDHA1) monoclonal Antibody, unconjugated (bsm-60685R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit

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

IgG antibody (green, bs-60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.