bs-4034R **[Primary Antibody]**

PDHA1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5160 **SWISS:** P08559

Target: PDHA1

Immunogen: KLH conjugated synthetic peptide derived from human PDHA1: 251-350/388.

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(2), 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.

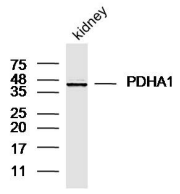
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

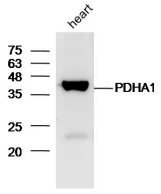
Predicted MW.: 43 kDa

Subcellular Location: Cytoplasm

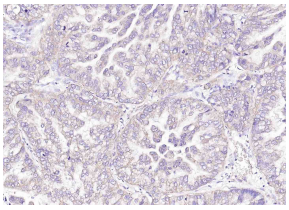
VALIDATION IMAGES



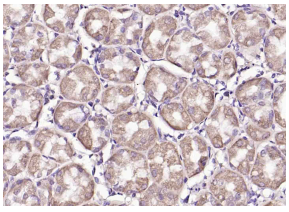
Sample: Kidney (Mouse) Lysate at 40 ug Primary: Anti-PDHA1 (bs-4034R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 43 kD



Sample: Heart (Mouse) Lysate at 40 ug Primary: Anti-PDHA1 (bs-4034R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 43 kD



Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); 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; Incubation with (PDHA1) Polyclonal Antibody, Unconjugated (bs-4034R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded

(human stomach); 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; Incubation with (PDHA1) Polyclonal Antibody, Unconjugated (bs-4034R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=17.4]** Yuehua Wang. et al. Gemcitabine nano-prodrug reprograms intratumoral metabolism and alleviates immunosuppression for hepatocellular carcinoma therapy. NANO TODAY. 2023 Dec;53:102009 WB,IF ;Mouse,Human. 10.1016/j.nantod.2023.102009
- **[IF=8.786]** Mingyi Yang. et al. A novel signature to guide osteosarcoma prognosis and immune microenvironment: Cuproptosis-related lncRNA. FRONT IMMUNOL. 2022; 13: 919231 WB,IHC ;Human. 35967366
- **[IF=8.8]** Yunjia Zhang. et al. Macrophage MCT4 inhibition activates reparative genes and protects from atherosclerosis by histone H3 lysine 18 lactylation. CELL REP. 2024 May;43: WB ;Mouse. 38733581
- **[IF=7.6]** Yan-Zhu Chen. et al. Acrolein exposure affects ovarian function by interfering with glycolysis and mitochondrial energy metabolism in mouse. ENVIRON POLLUT. 2024 Nov;361:124776 WB ;Mouse. 39173867
- **[IF=4.4]** Zhou Rui. et al. Comprehensive exploration of the involvement of cuproptosis in tumorigenesis and progression of neuroblastoma. BMC GENOMICS. 2023 Dec;24(1):1-17 WB,IHC ;Human. 38012558