

bs-4036R**[Primary Antibody]****phospho-PDHA1 (Ser293) Rabbit pAb****BioSS**
ANTIBODIES

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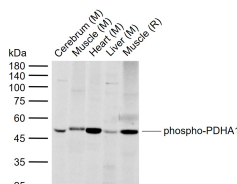
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— DATASHEET —

| | | |
|---|----------------------|--|
| Host: Rabbit | Isotype: IgG | Applications: WB (1:500-2000) |
| Clonality: Polyclonal | | Reactivity: Mouse, Rat (predicted: Human, Rabbit, Pig, Cow, Chicken, Dog, Horse) |
| GeneID: 5160 | SWISS: P08559 | Predicted MW.: 40 kDa |
| Target: PDHA1 (Ser293) | | Subcellular Location: Cytoplasm |
| Immunogen: KLH conjugated Synthesised phosphopeptide derived from human PDHA1 around the phosphorylation site of Ser293: GH(p-S)MS. | | |
| 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. | | |

— VALIDATION IMAGES —

Sample: Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Mouse Muscle tissue lysates Lane 3:
Mouse Heart tissue lysates Lane 4: Mouse Liver
tissue lysates Lane 5: Rat Muscle tissue lysates
Primary: Anti-phospho-PDHA1 (Ser293)
(bs-4036R) at 1/1000 dilution Secondary:
IRDye800CW Goat Anti-Rabbit IgG at 1/20000
dilution Predicted band size: 40 kDa Observed
band size: 48 kDa

— SELECTED CITATIONS —

- **[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