bs-4036R **[Primary Antibody]**

phospho-PDHA1 (Ser293) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5160 **SWISS:** P08559

Target: phospho-PDHA1 (Ser293)

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.

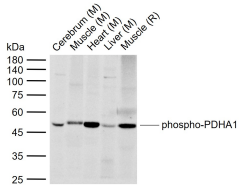
Applications: **WB** (1:500-2000)

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

Predicted MW.: 40 kDa

Subcellular Location: Cytoplasm

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