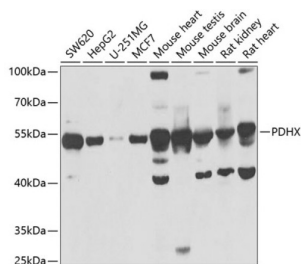
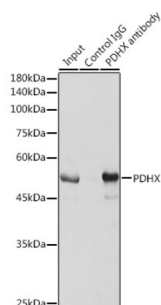


## Pyruvate Dehydrogenase Complex Component X (PDHX) Antibody

Catalogue No.: abx004919



Western blot analysis of various lysates using PDHX Antibody at 1/1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1/10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Exposure time: 5s.



Immunoprecipitation analysis of 600 µg extracts of Mouse brain cells using 3 µg PDHX antibody. Western blot was performed from the immunoprecipitate using PDHX antibody at a dilution of 1/1000.

PDHX Antibody is a Rabbit Polyclonal antibody against PDHX. The pyruvate dehydrogenase (PDH) complex is located in the mitochondrial matrix and catalyzes the conversion of pyruvate to acetyl coenzyme A. The PDH complex thereby links glycolysis to Krebs cycle. The PDH complex contains three catalytic subunits, E1, E2, and E3, two regulatory subunits, E1 kinase and E1 phosphatase, and a non-catalytic subunit, E3 binding protein (E3BP). This gene encodes the E3 binding protein subunit; also known as component X of the pyruvate dehydrogenase complex. This protein tethers E3 dimers to the E2 core of the PDH complex. Defects in this gene are a cause of pyruvate dehydrogenase deficiency which results in neurological dysfunction and lactic acidosis in infancy and early childhood. This protein is also a minor antigen for antimitochondrial antibodies. These autoantibodies are present in nearly 95% of patients with the autoimmune liver disease primary biliary cirrhosis (PBC). In PBC, activated T lymphocytes attack and destroy epithelial cells in the bile duct where this protein is abnormally distributed and overexpressed. PBC eventually leads to cirrhosis and liver failure. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

**Target:** Pyruvate Dehydrogenase Complex Component X (PDHX)

**Clonality:** Polyclonal

**Reactivity:** Human, Mouse, Rat

**Tested Applications:** ELISA, WB, IP

**Host:** Rabbit

**Recommended dilutions:** ELISA: 1 µg/ml, WB: 1/500 - 1/2000, IP: 0.5 µg - 4 µg antibody per 400 µg - 600 µg extracts of whole cells. Optimal dilutions/concentrations should be determined by the end user.

**Conjugation:** Unconjugated

# Datasheet

Version: 6.0.0  
Revision date: 10 Jul 2025



|                            |                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | Recombinant protein corresponding to PDHX. The exact sequence is proprietary.                                                              |
| <b>Isotype:</b>            | IgG                                                                                                                                        |
| <b>Form:</b>               | Liquid                                                                                                                                     |
| <b>Purification:</b>       | Purified by affinity chromatography.                                                                                                       |
| <b>Storage:</b>            | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.                                                                             |
| <b>UniProt Primary AC:</b> | O00330 ( <a href="#">UniProt</a> , <a href="#">ExPASy</a> )                                                                                |
| <b>Gene Symbol:</b>        | PDHX                                                                                                                                       |
| <b>GeneID:</b>             | <a href="#">8050</a>                                                                                                                       |
| <b>NCBI Accession:</b>     | NP_003468.2                                                                                                                                |
| <b>KEGG:</b>               | hsa:8050                                                                                                                                   |
| <b>String:</b>             | <a href="#">9606.ENSP00000227868</a>                                                                                                       |
| <b>Molecular Weight:</b>   | Calculated MW: 54 kDa<br>Observed MW: 54 kDa                                                                                               |
| <b>Buffer:</b>             | PBS, pH 7.3, containing 0.02% sodium azide, 50% glycerol.                                                                                  |
| <b>Concentration:</b>      | > 0.2 mg/ml                                                                                                                                |
| <b>Note:</b>               | THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION. |