

## Rabbit PDHX Polyclonal Antibody | anti-PDHX antibody

PDHX Antibody

|                               |                       |                                        |                                                           |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA323271</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|

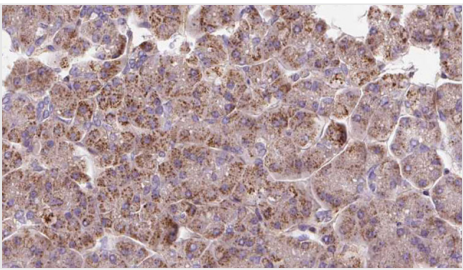
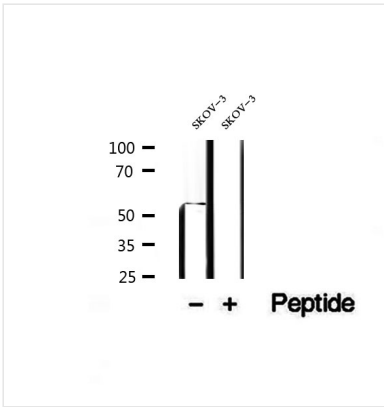
### PRODUCT SYNONYMS

PDHX; Polyclonal Antibody; PDHX Antibody; Dihydrolipoamide dehydrogenase binding protein of pyruvate dehydrogenase complex; Dihydrolipoamide dehydrogenase-binding protein of pyruvate dehydrogenase complex; DLDBP; E3 binding protein; E3-binding protein; E3BP; Lipoyl containing pyruvate dehydrogenase complex component X; Lipoyl-containing pyruvate dehydrogenase complex component X; mitochondrial; ODPX\_HUMAN; OPDX; PDX 1; PDX1; Pro X; proX; Pyruvate dehydrogenase complex component X; Pyruvate dehydrogenase complex lipoyl containing component X; Pyruvate dehydrogenase complex; E3 binding protein subunit; Pyruvate dehydrogenase protein X component; Pyruvate dehydrogenase protein X component mitochondrial; anti-PDHX antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                        |
| Reactivity                                     | Human, Mouse, Rat                                                                             |
| Clonality                                      | Polyclonal                                                                                    |
| Isotype                                        | IgG                                                                                           |
| Specificity                                    | PDHX antibody detects endogenous levels of PDHX.                                              |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                  | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                | 486                                                                                           |
| Applicable Applications for anti-PDHX antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                 |
| Immunogen                                      | A synthesized peptide derived from human PDHX.                                                |
| Subcellular Location                           | Mitochondrion Matrix.                                                                         |
| Predicted Cross Reactivity                     | <b>Pig, Bovine, Horse, Sheep, Dog</b>                                                         |
| Similarity                                     | Pig (83%), Bovine (83%), Horse (83%), Sheep (83%), Dog (83%)                                  |
| Conjugation                                    | Unconjugated                                                                                  |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                             |

IMAGES



**IHC (Immunohistochemistry)**  
AAA323271 at 1/100 staining Human pancreas cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

**WB (Western Blot)**  
Western blot analysis of extracts of SKOV-3 cells, using PDHX antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PDHX antibody

**Function:** Required for anchoring dihydrolipoamide dehydrogenase (E3) to the dihydrolipoamide transacetylase (E2) core of the pyruvate dehydrogenase complexes of eukaryotes. This specific binding is essential for a functional PDH complex.

**Subunit Structure:** Part of the inner core of the multimeric pyruvate dehydrogenase complex that is composed of about 48 DLAT and 12 PDHX molecules (PubMed:14638692, PubMed:20361979). This core binds multiple copies of pyruvate dehydrogenase (subunits PDH1A and PDHB, E1), dihydrolipoamide acetyltransferase (DLAT, E2) and lipoamide dehydrogenase (DLD, E3) (PubMed:14638692). Interacts with SIRT4 (PubMed:25525879). Interacts with DLD (PubMed:20385101, PubMed:16263718, PubMed:16442803, PubMed:20160912, PubMed:20361979).

**Post-translational Modifications:** Delipoylated at Lys-97 by SIRT4, delipoylation decreases the PHD complex activity.

**Similarity:** Belongs to the 2-oxoacid dehydrogenase family.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| NCBI GI #                        | 203098816                                                           |
| NCBI GeneID                      | 8050                                                                |
| NCBI Accession #                 | NP_001128496.1                                                      |
| NCBI GenBank Nucleotide #        | NM_001135024.1                                                      |
| UniProt Accession #              | O00330; O60221; Q96FV8; Q99783; B4DW62; D3DR11; E9PB14; E9PBP7      |
| Molecular Weight                 | Observed: 54 kDa<br>Predicted: 55 kDa                               |
| NCBI Official Full Name          | pyruvate dehydrogenase protein X component, mitochondrial isoform 2 |
| NCBI Official Synonym Full Names | pyruvate dehydrogenase complex component X                          |
| NCBI Official Symbol             | PDHX                                                                |
| NCBI Official Synonym Symbols    | E3BP; OPDX; PDX1; proX; DLDBP; PDHxD                                |
| NCBI Protein Information         | pyruvate dehydrogenase protein X component, mitochondrial           |
| UniProt Protein Name             | Pyruvate dehydrogenase protein X component, mitochondrial           |
| UniProt Gene Name                | PDHX                                                                |
| UniProt Synonym Gene Names       | PDX1; E3BP                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pdhx-antibody-immunohistochemistry-western-blot-elisa/323271>