

Rabbit PDHX Polyclonal Antibody | anti-PDHX antibody

PDHX Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA279671	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

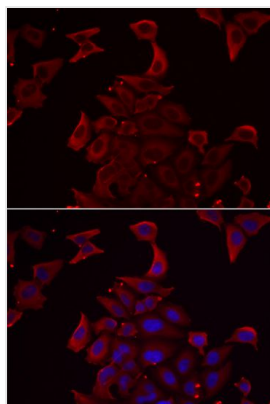
PRODUCT SYNONYMS

PDHX; Polyclonal Antibody; PDHX Polyclonal Antibody; E3BP; OPDX; PDX1; proX; DLDBP; anti-PDHX antibody

PRODUCT SPECIFICATIONS

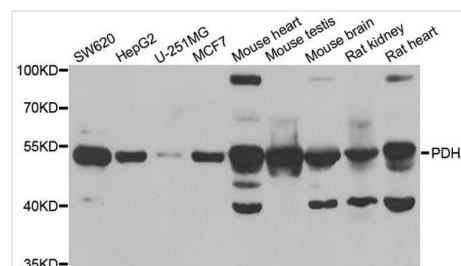
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Concentration	1mg/ml (varies by lot)
Sequence Length	501
Applicable Applications for anti-PDHX antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Species	Human
Immunogen	Recombinant Protein
Immunogen	Recombinant protein of human PDHX
Calculated Molecular Weight	54kDa
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

IMAGES



IF (Immunofluorescence)

Immunofluorescence analysis of U2OS cells using PDHX antibody. Blue: DAPI for nuclear staining.



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using PDHX antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 5s.

ADDITIONAL INFORMATION

Related Product Information for anti-PDHX antibody	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.
Product Categories/Family for anti-PDHX antibody	Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	12643417
NCBI GeneID	8050
UniProt Accession #	O00330; O60221; Q96FV8; Q99783; B4DW62; D3DR11; E9PB14; E9PBP7
Molecular Weight	501
NCBI Official Full Name	Pyruvate dehydrogenase protein X component, mitochondrial
NCBI Official Synonym Full Names	pyruvate dehydrogenase complex, component X
NCBI Official Symbol	PDHX
NCBI Official Synonym Symbols	E3BP; OPDX; PDX1; proX; DLDBP
NCBI Protein Information	pyruvate dehydrogenase protein X component, mitochondrial; pyruvate dehydrogenase complex, E3-binding protein subunit; lipoyl-containing pyruvate dehydrogenase complex component X; pyruvate dehydrogenase complex, lipoyl-containing component X; dihydrolipoamide dehydrogenase-binding protein of pyruvate dehydrogenase complex
UniProt Protein Name	Pyruvate dehydrogenase protein X component, mitochondrial
UniProt Gene Name	PDHX
UniProt Synonym Gene Names	PDX1; E3BP
UniProt Entry Name	ODPX_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/pdhx-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/279671>