Rabbit anti-Human PDHX Polyclonal Antibody | anti-PDHX antibody

Anti-PDHX Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256631	**Rabbit**	**Human**	**Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot**

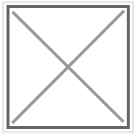
PRODUCT SYNONYMS

PDHX; Polyclonal Antibody; Anti-PDHX Antibody; Rabbit Polyclonal; PDHX Antibody; Rabbit PAb; Antigen Affinity Purified; pyruvate dehydrogenase complex; component X; Anti-DLDBP Antibody; Anti-E3BP Antibody; Anti-OPDX Antibody; Anti-PDX1 Antibody; Anti-proX Antibody; anti-PDHX antibody

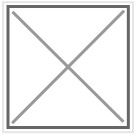
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PDHX
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-PDHX antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human PDHX fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human PDHX fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

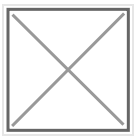
IMAGES



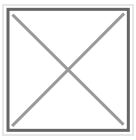
IP (Immunoprecipitation)
PDHX was immunoprecipitated using:Lane A:0.5 mg A431 Whole Cell Lysate4 uL anti-PDHX rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G.Primary antibody:Anti-PDHX rabbit polyclonal antibody,at 1:100 dilutionSecondary antibody:Clean-Blot IP Detection Reagent (HRP) at 1:1000dilutionDeveloped using the ECL technique.Performed under reducing conditions.Predicted band size: 55 kDaObserved band size :55 kDa



IF (Immunofluorescence)
Immunofluorescence staining of PDHX in U2OS cells. Cells were fixed with 4% PFA, permeabilzed with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-Human PDHX polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).Positive staining was localized to Cytoplasm.



IHC (Immunohiostchemistry)
Immunochemical staining of human PDHX in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)
Anti-PDHX rabbit polyclonal antibody at 1:500 dilutionLane A: A431 Whole Cell LysateLane B: H1299 Whole Cell LysateLane C: HeLa Whole Cell LysateLane D: NCI H460 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under reducing conditions.Predicted band size:54 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PDHX antibody	PDHX (Pyruvate Dehydrogenase Complex Component X) is a Protein Coding gene. The PDHX gene, located on 11p13, is conserved in chimpanzee, Rhesus monkey, dog, cow, mouse, chicken, zebrafish, and frog. 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). Among its related pathways are Pyruvate metabolism and Citric Acid (TCA) cycle and Signaling by GPCR.
Product Categories/Family for anti-PDHX antibody	Adaptor Proteins
References	Ivanov IS, et al. (2014) Founder p.Arg 446* mutation in the pdhx gene explains over half of cases with congenital lactic acidosis in roma children. Mol Genet Metab 113 (1-2): 76-83.Brown RM, et al. (2006) Pyruvate dehydrogenase e3 binding protein (protein x) deficiency. Dev Med Child Neurol 48 (9): 756-760.Bottone MG, et al. (2007) Enzyme-assisted photosensitization with rose bengal acetate induces structural and functional alteration of mitochondria in hela cells. Histochem Cell Biol 127 (3): 263-271.

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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