

Rabbit LDHD Polyclonal Antibody | anti-LDHD antibody

Anti-LDHD Antibody Picoband

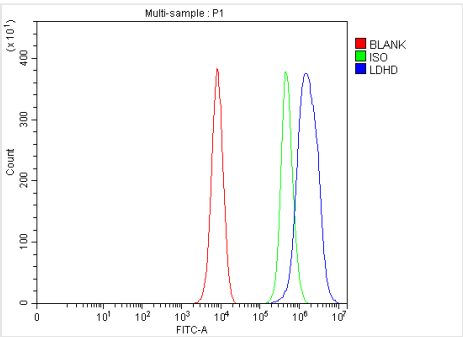
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127699	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

LDHD; Polyclonal Antibody; Anti-LDHD Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-LDHD antibody

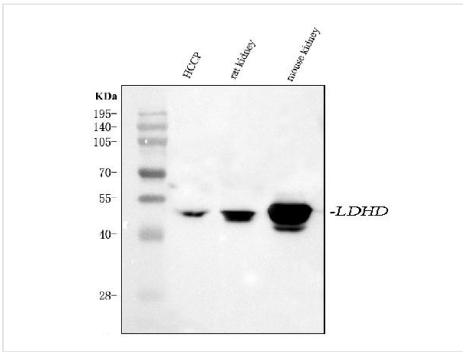
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-LDHD antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human LDHD recombinant protein (Position: R56-Q498).
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of K562 cells using anti-LDHD antibody (AAA127699). Overlay histogram showing K562 cells stained with AAA127699 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-LDHD Antibody (AAA127699, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of LDHD using anti-LDHD antibody (AAA127699). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human hepatocellular carcinoma paracancerous tissue (HCCP) lysates, Lane 2: rat kidney tissue lysates, Lane 3: mouse kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LDHD antigen affinity purified polyclonal antibody (#AAA127699) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for LDHD at approximately 45-50 kDa. The expected band size for LDHD is at 55 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-LDHD antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-LDHD antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Drabkin, M., Yogev, Y., Zeller, L., Zarivach, R., Zalk, R., Halperin, D., Wormser, O., Gurevich, E., Landau, D., Kadir, R., Perez, Y., Birk, O. S. Hyperuricemia and gout caused by missense mutation in D-lactate dehydrogenase. J. Clin. Invest. 129: 5163-5168, 2019. 2. Flick, M. J., Konieczny, S. F. Identification of putative mammalian D-lactate dehydrogenase enzymes. Biochem. Biophys. Res. Commun. 295: 910-916, 2002. 3. Monroe, G. R., van Eerde, A. M., Tessadori, F., Duran, K. J., Savelberg, S. M. C., van Alfen, J. C., Terhal, P. A., van der Crabben, S. N., Lichtenbelt, K. D., Fuchs, S. A., Gerrits, J., van Roosmalen, M. J., and 16 others. Identification of human D lactate dehydrogenase deficiency. Nature Commun. 10: 1477, 2019. Note: Electronic Article.

NCBI AND UNIPROT INFORMATION

NCBI GI #	37595754
NCBI GeneID	197257
NCBI Accession #	NP_705690.2
NCBI GenBank Nucleotide #	NM_153486.3
UniProt Accession #	Q86WU2; Q8IZK5
Molecular Weight	52,144 Da
NCBI Official Full Name	probable D-lactate dehydrogenase, mitochondrial isoform 1
NCBI Official Synonym Full Names	lactate dehydrogenase D
NCBI Official Symbol	LDHD

NCBI Official Synonym Symbols	DLD
NCBI Protein Information	probable D-lactate dehydrogenase, mitochondrial
UniProt Protein Name	Probable D-lactate dehydrogenase, mitochondrial
UniProt Gene Name	LDHD
UniProt Synonym Gene Names	DLD; Lactate dehydrogenase D

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/ldhd-antibody-flow-cytometry-western-blot-elisa/127699>