

Rabbit HIBADH Polyclonal Antibody | anti-HIBADH antibody

Anti-HIBADH Antibody Picoband

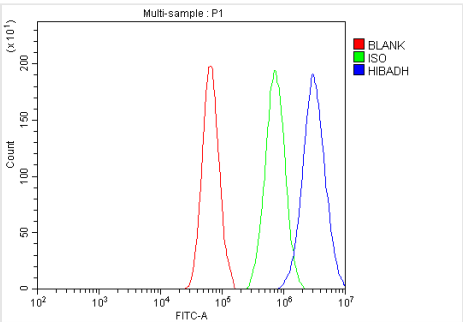
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127543	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

HIBADH; Polyclonal Antibody; Anti-HIBADH Antibody Picoband; anti-HIBADH antibody

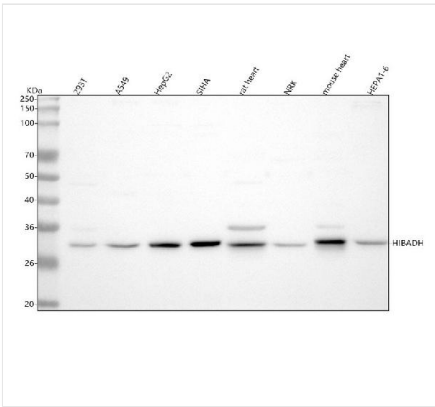
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-HIBADH antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human HIBADH recombinant protein (Position: R34-E332). Human HIBADH shares 93.3% and 92.6% amino acid (aa) sequence identity with mouse and rat HIBADH, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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 A549 cells using anti-HIBADH antibody (AAA127543). Overlay histogram showing A549 cells stained with AAA127543 (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-HIBADH Antibody (AAA127543, 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 HIBADH using anti-HIBADH antibody (AAA127543). 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 293T whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human SIHA whole cell lysates, Lane 5: rat heart tissue lysates, Lane 6: rat NRK whole cell lysates, Lane 7: mouse heart tissue lysates, Lane 8: mouse HEPA1-6 whole cell 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-HIBADH antigen affinity purified polyclonal antibody (#AAA127543) 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 HIBADH at approximately 32 kDa. The expected band size for HIBADH is at 35 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-HIBADH 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-HIBADH antibody	Primary Antibodies
References	1. Rougraff, P. M., Zhang, B., Kuntz, M. J., Harris, R. A., Crabb, D. W. Cloning and sequence analysis of a cDNA for 3-hydroxyisobutyrate dehydrogenase: evidence for its evolutionary relationship to other pyridine nucleotide-dependent dehydrogenases. J. Biol. Chem. 264: 5899-5903, 1989.

NCBI AND UNIPROT INFORMATION

NCBI GI #	23308751
NCBI GeneID	11112
NCBI Accession #	NP_689953.1
NCBI GenBank Nucleotide #	NM_152740.3
UniProt Accession #	P31937; Q546Z2; Q9UDN3
Molecular Weight	35,329 Da
NCBI Official Full Name	3-hydroxyisobutyrate dehydrogenase, mitochondrial
NCBI Official Synonym Full Names	3-hydroxyisobutyrate dehydrogenase
NCBI Official Symbol	HIBADH
NCBI Official Synonym Symbols	NS5ATP1

NCBI Protein Information	3-hydroxyisobutyrate dehydrogenase, mitochondrial; 3'-hydroxyisobutyrate dehydrogenase
UniProt Protein Name	3-hydroxyisobutyrate dehydrogenase, mitochondrial
UniProt Gene Name	HIBADH
UniProt Synonym Gene Names	HIBADH
UniProt Entry Name	3HIDH_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hibadh-antibody-flow-cytometry-western-blot-elisa/127543>