

Rabbit OGDH Polyclonal Antibody | anti-OGDH antibody

Anti-OGDH Antibody Picoband

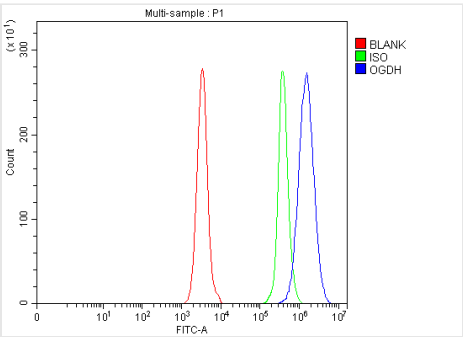
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127284	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

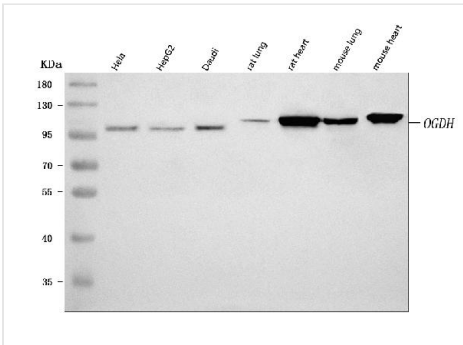
OGDH; Polyclonal Antibody; Anti-OGDH Antibody Picoband; Zinc finger protein Helios; loricrin; Loricrin; LOR; LRN; anti-OGDH antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in testis and to a lesser degree in brain, ovary and placenta. Found in most tissues at low levels.
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-OGDH antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human OGDH recombinant protein (Position: M1-S1023).
Subcellular Localization	Nucleoplasm. Cytoplasm
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	Major keratinocyte cell envelope protein.
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 Daudi cells using anti-OGDH antibody (AAA127284). Overlay histogram showing Daudi cells stained with AAA127284 (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-OGDH Antibody (AAA127284, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)
Figure 1. Western blot analysis of OGDH using anti-OGDH antibody (AAA127284). 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 Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human Daudi whole cell lysates, Lane 4: rat lung tissue lysates, Lane 5: rat heart tissue lysates, Lane 6: mouse lung tissue lysates, Lane 7: mouse heart 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-OGDH antigen affinity purified polyclonal antibody (#AAA127284) 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 OGDH at approximately 110 kDa. The expected band size for OGDH is at 116 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-OGDH 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-OGDH antibody	Primary Antibodies; Cell Biology; Cytokines; Epigenetics and Nuclear Signaling; Immunology; Innate Immunity; Interferons; Proteasome/Ubiquitin; Proteolysis/Ubiquitin; Ubiquitin & Ubiquitin Like Modifiers; Ubiquitin E3 Enzymes
References	1. Koike, K., Urata, Y., Goto, S. Cloning and nucleotide sequence of the cDNA encoding human 2-oxoglutarate dehydrogenase (lipoamide). Proc. Nat. Acad. Sci. 89: 1963-1967, 1992. 2. Koike, K. The gene encoding human 2-oxoglutarate dehydrogenase: structural organization and mapping to chromosome 7p13-p14. Gene 159: 261-266, 1995. 3. Liu, Y., You, Y., Lu, Z., Yang, J., Li, P., Liu, L., Xu, H., Niu, Y., Cao, X. N(6)-methyladenosine RNA modification-mediated cellular metabolism rewiring inhibits viral replication. Science 365: 1171-1176, 2019.

NCBI AND UNIPROT INFORMATION

NCBI GI #	160332299
NCBI GeneID	4967
UniProt Accession #	Q02218; Q96DD3; Q9UDX0; B4E2U9; D3DVL0; E9PBM1
Molecular Weight	1023
NCBI Official Full Name	2-oxoglutarate dehydrogenase, mitochondrial
NCBI Official Synonym Full Names	oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide)
NCBI Official Symbol	OGDH
NCBI Official Synonym Symbols	E1k; OGDC; AKGDH
NCBI Protein Information	2-oxoglutarate dehydrogenase, mitochondrial; OGDC-E1; oxoglutarate decarboxylase; 2-oxoglutarate dehydrogenase complex component E1; oxoglutarate dehydrogenase (succinyl-transferring)

UniProt Protein Name	2-oxoglutarate dehydrogenase, mitochondrial
UniProt Gene Name	OGDH
UniProt Synonym Gene Names	OGDC-E1
UniProt Entry Name	ODO1_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/ogdh-antibody-flow-cytometry-western-blot-elisa/127284>