

Rabbit OGDHL Polyclonal Antibody | anti-OGDHL antibody

Anti-OGDHL Antibody Picoband

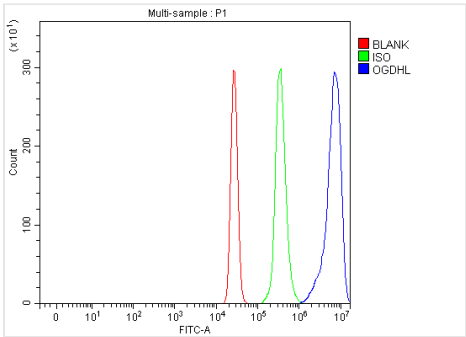
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127671	Rabbit	Human, Mouse, Rat	Western Blot, Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

OGDHL; Polyclonal Antibody; Anti-OGDHL Antibody Picoband; Aquaporin-6; NOVA alternative splicing regulator 2; RNA-binding protein Nova-2; Astrocytic NOVA1-like RNA-binding protein; Neuro-oncological ventral antigen 2; NOVA2; ANOVA; NOVA3; anti-OGDHL antibody

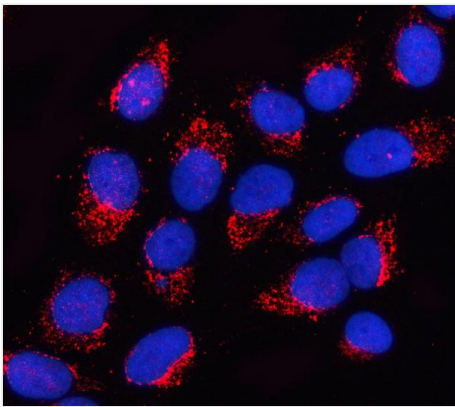
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Brain. Expression restricted to astrocytes.
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-OGDHL antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human OGDHL recombinant protein (Position: M1-F1010).
Subcellular Localization	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	May regulate RNA splicing or metabolism in a specific subset of developing neurons. Binds single strand RNA.
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.



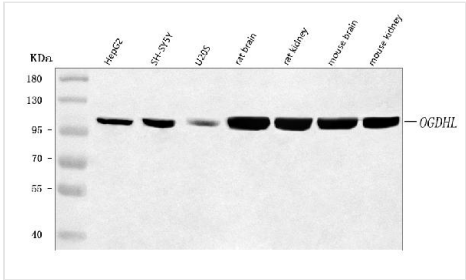
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U937 cells using anti-OGDHL antibody (AAA127671).Overlay histogram showing U937 cells stained with AAA127671 (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-OGDHL Antibody (AAA127671, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of OGDHL using anti-OGDHL antibody (AAA127671).OGDHL was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-OGDHL Antibody (AAA127671) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluoescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of OGDHL using anti-OGDHL antibody (AAA127671).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 HepG2 whole cell lysates,Lane 2: human SH-SY5Y whole cell lysates,Lane 3: human U20S whole cell lysates,Lane 4: rat brain tissue lysates,Lane 5: rat kidney tissue lysates,Lane 6: mouse brain tissue lysates,Lane 7: 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-OGDHL antigen affinity purified polyclonal antibody (#AAA127671) at 0.25ug/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 OGDHL at approximately 100 kDa. The expected band size for OGDHL is at 114 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-OGDHL 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-OGDHL antibody	Primary Antibodies; Channels; Metabolism; Plasma Membrane; Signal Transduction

References	1. Bunik, V. I., Degtyarev, D. Structure-function relationships in the 2-oxo acid dehydrogenase family: substrate-specific signatures and functional predictions for the 2-oxoglutarate dehydrogenase-like proteins. <i>Proteins</i> 71: 874-890, 2008. 2. Nagase, T., Ishikawa, K., Kikuno, R., Hirose, M., Nomura, N., Ohara, O. Prediction of the coding sequences of unidentified human genes. XV. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro. <i>DNA Res.</i> 6: 337-345, 1999. 3. Sen, T., Sen, N., Noordhuis, M. G., Ravi, R., Wu, T.-C., Ha, P. K., Sidransky, D., Hoque, M. O. OGDHL is a modifier of AKT-dependent signaling and NF-kappaB function. <i>PLoS One</i> 7: e48770, 2012. Note: Electronic Article.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	160419019
NCBI GeneID	55753
UniProt Accession #	Q9ULD0; Q8TAN9; Q9NVA0; A8K2G1; B4DKG2; B4E193
Molecular Weight	1010
NCBI Official Full Name	2-oxoglutarate dehydrogenase-like, mitochondrial
NCBI Official Synonym Full Names	oxoglutarate dehydrogenase-like
NCBI Official Symbol	OGDHL
NCBI Protein Information	2-oxoglutarate dehydrogenase-like, mitochondrial; OGDC-E1-like; alpha-ketoglutarate dehydrogenase-like; 2-oxoglutarate dehydrogenase complex component E1-like
UniProt Protein Name	2-oxoglutarate dehydrogenase-like, mitochondrial
UniProt Gene Name	OGDHL
UniProt Synonym Gene Names	KIAA1290; OGDC-E1-like
UniProt Entry Name	OGDHL_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.