

Rabbit anti-Human ODF2L Polyclonal Antibody | anti-ODF2L antibody

Anti-ODF2L Antibody Picoband

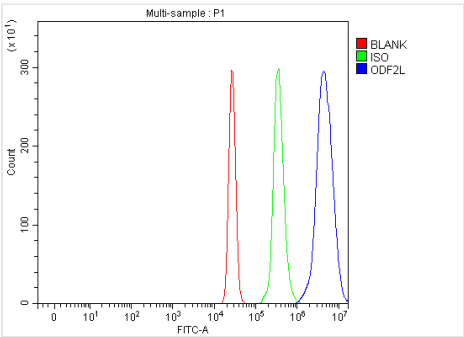
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127891	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ODF2L; Polyclonal Antibody; Anti-ODF2L Antibody Picoband; Transmembrane protein 240; kelch repeat and BTB domain containing 2; Kelch repeat and BTB domain-containing protein 2; BTB and kelch domain-containing protein 1; KBTBD2; BKLHD1; KIAA1489; anti-ODF2L antibody

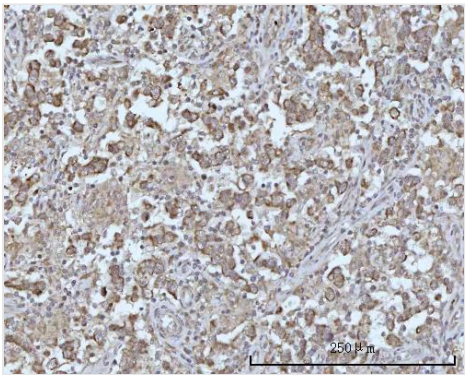
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon.
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-ODF2L antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human ODF2L recombinant protein (Position: K3-D610).
Subcellular Localization	Cul3-RING ubiquitin ligase complex
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	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.
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.



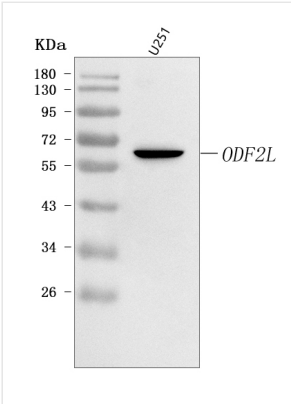
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U937 cells using anti-ODF2L antibody (AAA127891). Overlay histogram showing U937 cells stained with AAA127891 (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-ODF2L Antibody (AAA127891, 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.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of ODF2L using anti-ODF2L antibody (AAA127891). ODF2L was detected in a paraffin-embedded section of human testicular seminoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-ODF2L Antibody (AAA127891) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of ODF2L using anti-ODF2L antibody (AAA127891). 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 U251 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-ODF2L antigen affinity purified polyclonal antibody (#AAA127891) 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 ODF2L at approximately 65 kDa. The expected band size for ODF2L is at 74 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ODF2L 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-ODF2L antibody	Primary Antibodies; Cell Biology
References	1. Gross, M. B. Personal Communication. Baltimore, Md. 11/22/2022.2. Nagase, T., Ishikawa, K., Kikuno, R., Hirosawa, 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. DNA Res. 6: 337-345, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	60551654
NCBI GeneID	57489
UniProt Accession #	Q9ULJ1; Q05C40; Q5BJG5; Q5TBX3; Q5TBX4; Q86X31; A8MU56; B4E037
Molecular Weight	73,728 Da
NCBI Official Full Name	ODF2L protein
NCBI Official Synonym Full Names	outer dense fiber of sperm tails 2-like
NCBI Official Symbol	ODF2L
NCBI Official Synonym Symbols	dJ977L11.1; RP5-977L11.1
NCBI Protein Information	outer dense fiber protein 2-like
UniProt Protein Name	Outer dense fiber protein 2-like
UniProt Gene Name	ODF2L
UniProt Synonym Gene Names	KIAA1229
UniProt Entry Name	ODF2L_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://www.aaabiotech.com/polyclonal/odf2l-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127891>