

Rabbit anti-Human OGFOD2 Polyclonal Antibody | anti-OGFOD2 antibody

Anti-OGFOD2 Antibody Picoband

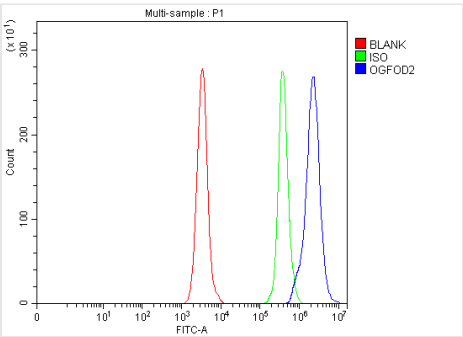
CATALOG # AAA127901	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

OGFOD2; Polyclonal Antibody; Anti-OGFOD2 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-OGFOD2 antibody

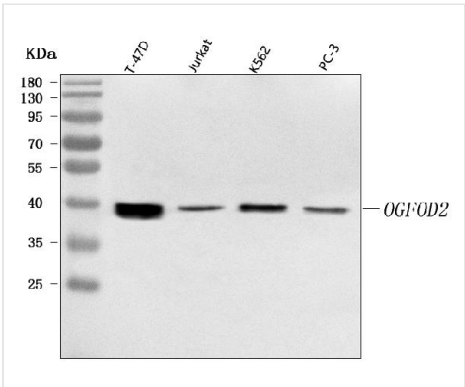
PRODUCT SPECIFICATIONS

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-OGFOD2 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human OGFOD2 recombinant protein (Position: R8-R293).
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 2. Flow Cytometry analysis of Daudi cells using anti-OGFOD2 antibody (AAA127901).Overlay histogram showing Daudi cells stained with AAA127901 (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-OGFOD2 Antibody (AAA127901, 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 OGFOD2 using anti-OGFOD2 antibody (AAA127901).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 T-47D whole cell lysates,Lane 2: human Jurkat whole cell lysates,Lane 3: human K562 whole cell lysates,Lane 4: human PC-3 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-OGFOD2 antigen affinity purified polyclonal antibody (#AAA127901) 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 OGFOD2 at approximately 39 kDa. The expected band size for OGFOD2 is at 39,32 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-OGFOD2 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-OGFOD2 antibody	Primary Antibodies; Cell Biology
References	1. Ripke, S. , O'Dushlaine, C. , Chambert, K. , Moran, J. L. , & Kahler, A. K. . (2013). Genome-wide association analysis identifies 13 new risk loci for schizophrenia. Nature Genetics.2. Abraham, C. G. , Ludwig, M. P. , Andrysik, Z. , Galbraith, M. D. , Sullivan, K. D. , & Correspondence, J. M. E. . deltanp63alpha suppresses tgfb2 expression and rhoa activity to drive cell proliferation in squamous cell carcinomas. Cell reports, 24(12), 3224-3236.3. Ripke, S. , Neale, B. M. , Corvin, A. , Walters, J. , Farh, K. H. , & Al, E. . Biological insights from 108 schizophrenia-associated genetic loci. Nature.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13375846
NCBI GeneID	79676
NCBI Accession #	NP_078899
NCBI GenBank Nucleotide #	NM_024623.1
UniProt Accession #	Q6N063; Q4KN13; Q6N023; Q9H8K6; B3KT24
Molecular Weight	20,288 Da
NCBI Official Full Name	2-oxoglutarate and iron-dependent oxygenase domain-containing protein 2
NCBI Official Synonym Full Names	2-oxoglutarate and iron-dependent oxygenase domain containing 2
NCBI Official Symbol	OGFOD2

NCBI Protein Information	2-oxoglutarate and iron-dependent oxygenase domain-containing protein 2
UniProt Protein Name	2-oxoglutarate and iron-dependent oxygenase domain-containing protein 2
UniProt Gene Name	OGFOD2
UniProt Entry Name	OGFD2_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/ogfod2-antibody-flow-cytometry-western-blot-elisa/127901>