

Rabbit OPLAH Polyclonal Antibody | anti-OPLAH antibody

Anti-OPLAH Antibody Picoband

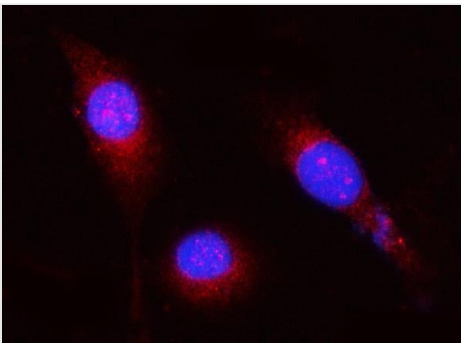
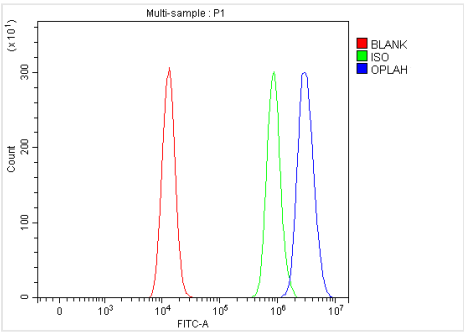
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127728	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

OPLAH; Polyclonal Antibody; Anti-OPLAH Antibody Picoband; eva-1 homolog A; regulator of programmed cell death; Protein eva-1 homolog A; Protein FAM176A; Transmembrane protein 166; EVA1A; FAM176A; TMEM166; SP24; anti-OPLAH antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in lung, kidney, liver, pancreas, placenta, but not in heart and skeletal muscle.
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-OPLAH antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human OPLAH recombinant protein (Position: H788-E1072).
Subcellular Localization	Endoplasmic reticulum membrane, Single-pass membrane protein, Lysosome membrane
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	Acts as a regulator of programmed cell death, mediating both autophagy and apoptosis.
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.

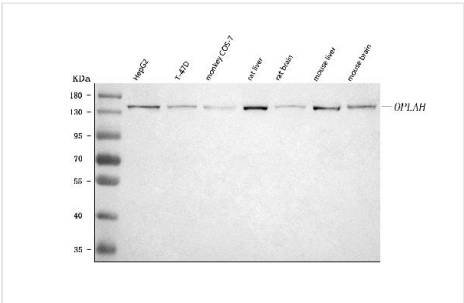


FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HEL cells using anti-OPLAH antibody (AAA127728).Overlay histogram showing HEL cells stained with AAA127728 (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-OPLAH Antibody (AAA127728, 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 OPLAH using anti-OPLAH antibody (AAA127728).OPLAH was detected in an immunocytochemical section of PC-3 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-OPLAH Antibody (AAA127728) 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 fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of OPLAH using anti-OPLAH antibody (AAA127728).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 T-47D whole cell lysates,Lane 3: monkey COS-7 whole cell lysates,Lane 4: rat liver tissue lysates,Lane 5: rat brain tissue lysates,Lane 6: mouse liver tissue lysates,Lane 7: mouse brain 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-OPLAH antigen affinity purified polyclonal antibody (#AAA127728) 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 OPLAH at approximately 140 kDa. The expected band size for OPLAH is at 135-140 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-OPLAH 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-OPLAH antibody	Primary Antibodies; Cell Biology; Proteasome/Ubiquitin; Proteolysis/Ubiquitin; Ubiquitin E3 Enzymes
References	1. Almaghlouth, I. A., Mohamed, J. Y., Al-Amoudi, M., Al-Ahaidib, L., Al-Odaib, A., Alkuraya, F. S. 5-Oxoprolinase deficiency: report of the first human OPLAH mutation. Clin. Genet. 82: 193-196, 2012. 2. Calpena, E., Casado, M., Martinez-Rubio, D., Nascimento, A., Colomer, J., Gargallo, E., Garcia-Cazorla, A., Palau, F., Artuch, R., Espinos, C. 5-Oxoprolinuria in heterozygous patients for 5-oxoprolinase (OPLAH) missense changes. JIMD Rep. 7: 123-128, 2013.3. Hartz, P. A. Personal Communication. Baltimore, Md. 9/22/2011.

NCBI AND UNIPROT INFORMATION

NCBI GI #	48314820
NCBI GeneID	26873
NCBI Accession #	NP_060040.1
NCBI GenBank Nucleotide #	NM_017570.4
UniProt Accession #	O14841; Q75W65; Q9Y4Q0; A5PKY8
Molecular Weight	137,457 Da
NCBI Official Full Name	5-oxoprolinase
NCBI Official Synonym Full Names	5-oxoprolinase (ATP-hydrolysing)
NCBI Official Symbol	OPLAH
NCBI Official Synonym Symbols	OPLA; OPLAHD; 5-Opase
NCBI Protein Information	5-oxoprolinase
UniProt Protein Name	5-oxoprolinase
UniProt Gene Name	OPLAH
UniProt Synonym Gene Names	5-OPase
UniProt Entry Name	OPLA_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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