

Rabbit ACY-1/ACY1 Polyclonal Antibody | anti-ACY-1/ACY1 antibody

Anti-ACY-1/ACY1 Antibody Picoband

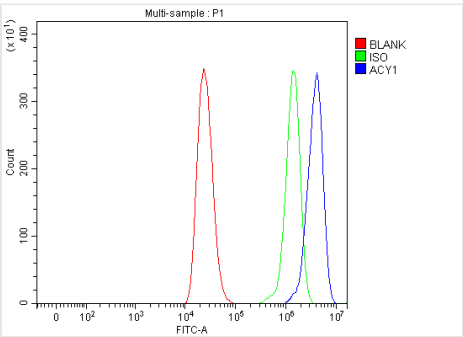
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127314	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

ACY-1/ACY1; Polyclonal Antibody; Anti-ACY-1/ACY1 Antibody Picoband; N-alpha-acetyltransferase 15; NatA auxiliary subunit; Gastric cancer antigen Ga19; N-terminal acetyltransferase; NMDA receptor-regulated protein 1; Protein tubedown-1; Tbdn100; NAA15; GA19; NARG1; NATH; TBDN100; anti-ACY-1/ACY1 antibody

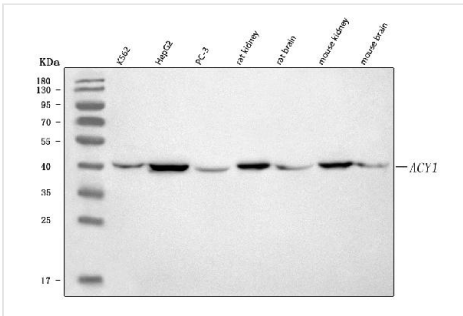
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed at high levels in testis and in ocular endothelial cells. Also found in brain (corpus callosum), heart, colon, bone marrow and at lower levels in most adult tissues, including thyroid, liver, pancreas, mammary and salivary glands, lung, ovary, urogenital system and upper gastrointestinal tract. Overexpressed in gastric cancer, in papillary thyroid carcinomas and in a Burkitt lymphoma cell line (Daudi). Specifically suppressed in abnormal proliferating blood vessels in eyes of patients with proliferative diabetic retinopathy.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-ACY-1/ACY1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human ACY-1/ACY1 recombinant protein (Position: E8-A354).
Subcellular Localization	Cytoplasm, Nucleus. Mainly cytoplasmic, nuclear in some cases. Present in the free cytosolic and cytoskeleton-bound polysomes, but not in the membrane-bound polysomes
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	Auxillary subunit of the N-terminal acetyltransferase A (NatA) complex which displays alpha (N-terminal) acetyltransferase activity. The NAT activity may be important for vascular, hematopoietic and neuronal growth and development. Required to control retinal neovascularization in adult ocular endothelial cells. In complex with XRCC6 and XRCC5 (Ku80), up-regulates transcription from the osteocalcin promoter.
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 THP-1 cells using anti-ACY-1/ACY1 antibody (AAA127314). Overlay histogram showing THP-1 cells stained with AAA127314 (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-ACY-1/ACY1 Antibody (AAA127314, 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 ACY-1/ACY1 using anti-ACY-1/ACY1 antibody (AAA127314). 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 K562 whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human PC-3 whole cell lysates, Lane 4: rat kidney tissue lysates, Lane 5: rat brain tissue lysates, Lane 6: mouse kidney 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-ACY-1/ACY1 antigen affinity purified polyclonal antibody (#AAA127314) 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 ACY-1/ACY1 at approximately 40-43 kDa. The expected band size for ACY-1/ACY1 is at 46 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ACY-1/ACY1 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-ACY-1/ACY1 antibody	Primary Antibodies; Cancer; Cancer Susceptibility; Cardiovascular; Domain Families; Epigenetics and Nuclear Signaling; Hlh/Leucine Zipper; Hypertrophy; Immunology; Innate Immunity; Oncoproteins; Oncoproteins/Suppressors; Proto-Oncogenes; TLR Signaling; Tr
References	1. Boldog, F., Erlandsson, R., Klein, G., Sumegi, J. Long-range restriction enzyme maps of DNF15S2, D3S2 and c-raf1 loci on the short arm of human chromosome 3. Cancer Genet. Cytogenet. 42: 295-306, 1989.2. Cook, R. M., Burke, B. J., Buchhagen, D. L., Minna, J. D., Miller, Y. E. Human aminoacylase-1: cloning, sequence, and expression analysis of a chromosome 3p21 gene inactivated in small cell lung cancer. J. Biol. Chem. 268: 17010-17017, 1993. 3. Ferri, L., Funghini, S., Fioravanti, A., Biondi, E. G., la Marca, G., Guerrini, R., Donati, M. A., Morrone, A. Aminoacylase I deficiency due to ACY1 mRNA exon skipping. Clin. Genet. 86: 367-372, 2014.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501901
NCBI GeneID	95
NCBI Accession #	NP_000657.1
NCBI GenBank Nucleotide #	NM_000666.2
UniProt Accession #	Q03154; C9J6I6; C9J9D8; C9JWD4
Molecular Weight	42,195 Da
NCBI Official Full Name	aminoacylase-1 isoform a
NCBI Official Synonym Full Names	aminoacylase 1
NCBI Official Symbol	ACY1

NCBI Official Synonym Symbols	ACY-1; ACY1D; HEL-S-5
NCBI Protein Information	aminoacylase-1; N-acyl-L-amino-acid amidohydrolase; epididymis secretory protein Li 5
UniProt Protein Name	Aminoacylase-1
UniProt Gene Name	ACY1
UniProt Synonym Gene Names	ACY-1
UniProt Entry Name	ACY1_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/acy-1-acy1-antibody-flow-cytometry-western-blot-elisa/127314>