

Rabbit OIT3 Polyclonal Antibody | anti-OIT3 antibody

Anti-OIT3 Antibody Picoband

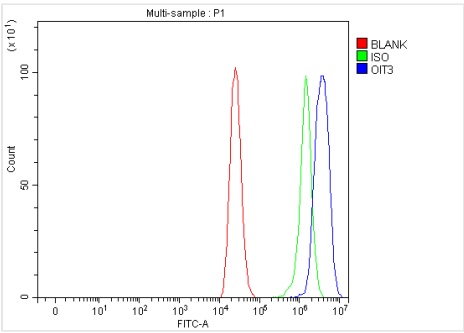
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127770	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

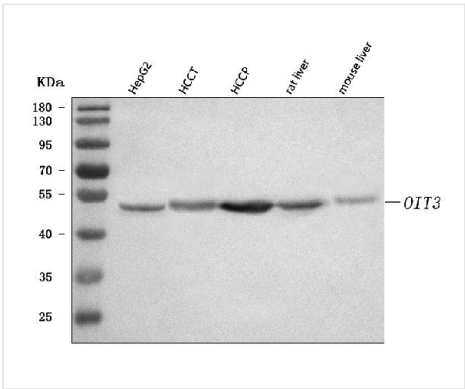
OIT3; Polyclonal Antibody; Anti-OIT3 Antibody Picoband; histone cluster 1 H3 family member a/b/c/d/e/f/g/h/i/j; Histone H3/a; Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/l; Histone H3/j; Histone H3/k; Histone H3/l; HIST1H3A; HIST1H3B; HIST1H3C; HIST1H3D; HIST1H3E; HIST1H3F; HIST1H3G; HIST1H3H; HIST1H3I; HIST1H3J; H3FJ; anti-OIT3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in fetal brain, fetal lung, fetal liver, heart, brain, placenta, lung, liver, muscle, kidney and pancreas.
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-OIT3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human OIT3 recombinant protein (Position: D43-L281).
Subcellular Localization	Cytoplasm
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	Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.
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 CACO-2 cells using anti-OIT3 antibody (AAA127770).Overlay histogram showing CACO-2 cells stained with AAA127770 (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-OIT3 Antibody (AAA127770, 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 OIT3 using anti-OIT3 antibody (AAA127770).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 hepatocellular carcinoma tumor tissue(HCCT) lysates,Lane 3: human hepatocellular carcinoma paracancerous tissue(HCCP) lysates,Lane 4: rat liver tissue lysates,Lane 5: mouse liver 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-OIT3 antigen affinity purified polyclonal antibody (#AAA127770) 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 OIT3 at approximately 51 kDa. The expected band size for OIT3 is at 60 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-OIT3 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-OIT3 antibody	Primary Antibodies; DNA/RNA; DNA Synthesis; Epigenetics and Nuclear Signaling; RNA Processing
References	1. Xu, Z.-G., Du, J.-J., Zhang, X., Cheng, Z.-H., Ma, Z.-Z., Xiao, H.-S., Yu, L., Wang, Z.-Q., Li, Y.-Y., Huo, K.-K., Han, Z.-G. A novel liver-specific zona pellucida domain containing protein that is expressed rarely in hepatocellular carcinoma. Hepatology 38: 735-744, 2003. 2. Yang, H., Wu, C., Zhao, S., Guo, J. Identification and characterization of D8C, a novel domain present in liver-specific LZP, uromodulin and glycoprotein 2, mutated in familial juvenile hyperuricaemic nephropathy. FEBS Lett. 578: 236-238, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116497235
NCBI GeneID	170392
UniProt Accession #	Q8WWZ8; Q8N1M8; A0AVP3
Molecular Weight	60,022 Da
NCBI Official Full Name	OIT3 protein
NCBI Official Synonym Full Names	oncoprotein induced transcript 3
NCBI Official Symbol	OIT3
NCBI Official Synonym Symbols	LZP
NCBI Protein Information	oncoprotein-induced transcript 3 protein; liver-specific ZP domain-containing protein; liver-specific zona pellucida domain-containing protein

UniProt Protein Name	Oncoprotein-induced transcript 3 protein
UniProt Gene Name	OIT3
UniProt Synonym Gene Names	LZP
UniProt Entry Name	OIT3_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://stage.aaabiotech.com/polyclonal/oit3-antibody-flow-cytometry-western-blot-elisa/127770>