

Rabbit anti-Human CRABP1 Polyclonal Antibody | anti-CRABP1 antibody

Anti-CRABP1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127490	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

CRABP1; Polyclonal Antibody; Anti-CRABP1 Antibody Picoband; Chromaffin granule amine transporter; DAZ associated protein 1; DAZ-associated protein 1; Deleted in azoospermia-associated protein 1; DAZAP1; anti-CRABP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mainly Expressed in testis. Expressed to a lower level in thymus. Weakly or not Expressed in heart, liver, brain, placenta, lung, skeletal 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-CRABP1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human CRABP1 recombinant protein (Position: R60-E118).
Subcellular Localization	Nucleus, 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	RNA-binding protein, which may be required during spermatogenesis.
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 SH-SY5Y cells using anti-CRABP1 antibody (AAA127490). Overlay histogram showing SH-SY5Y cells stained with AAA127490 (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-CRABP1 Antibody (AAA127490, 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 (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of CRABP1 using anti-CRABP1 antibody (AAA127490). 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 SH-SY5Y whole cell lysates, Lane 2: human MOLT-4 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-CRABP1 antigen affinity purified polyclonal antibody (#AAA127490) 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 CRABP1 at approximately 16 kDa. The expected band size for CRABP1 is at 16 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CRABP1 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-CRABP1 antibody	Primary Antibodies ; Cancer ; Cell Biology ; Energy Metabolism ; Energy Transfer Pathways ; Metabolic Signaling Pathways ; Metabolism ; Oxidative Stress ; Pathways and Processes ; Redox Metabolism ; Signal Transduction
References	1. Flagiello, D., Apiou, F., Gibaud, A., Poupon, M. F., Dutiriaux, B., Malfoy, B. Assignment of the genes for cellular retinoic acid binding protein 1 (CRABP1) and 2 (CRABP2) to human chromosome band 15q24 and 1q21.3, respectively, by in situ hybridization. Cytogenet. Cell Genet. 76: 17-18, 1997. 2. Geurts van Kessel, A., de Leeuw, H., Dekker, E. J., Rijks, L., Spurr, N., Ledbetter, D., Kootwijk, E., Vaessen, M. J. Localization of the cellular retinoic acid binding protein (CRABP) gene relative to the acute promyelocytic leukemia-associated breakpoint on human chromosome 15. Hum. Genet. 87: 201-204, 1991. 3. Guidez, F., Parks, S., Wong, H., Jovanovic, J. V., Mays, A., Gilkes, A. F., Mills, K. I., Guillemin, M.-C., Hobbs, R. M., Pandolfi, P. P., de The, H., Solomon, E., Grimwade, D. RAR-alpha-PLZF overcomes PLZF-mediated repression of CRABPI, contributing to retinoid resistance in t(11;17) acute promyelocytic leukemia. Proc. Nat. Acad. Sci. 104: 18694-18699, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758052
NCBI GeneID	1381
NCBI Accession #	NP_004369.1
NCBI GenBank Nucleotide #	NM_004378.2
UniProt Accession #	P29762; Q6IAY7; Q8WTV5
Molecular Weight	15,566 Da
NCBI Official Full Name	cellular retinoic acid-binding protein 1
NCBI Official Synonym Full Names	cellular retinoic acid binding protein 1
NCBI Official Symbol	CRABP1
NCBI Official Synonym Symbols	RBP5; CRABP; CRABPI; CRABP-I
NCBI Protein Information	cellular retinoic acid-binding protein 1; cellular retinoic acid-binding protein I
UniProt Protein Name	Cellular retinoic acid-binding protein 1
UniProt Gene Name	CRABP1

UniProt Synonym Gene Names	RBP5; CRABP-I
UniProt Entry Name	RABP1_HUMAN

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/crabp1-antibody-flow-cytometry-western-blot-elisa/127490>