

Rabbit RBP1 Polyclonal Antibody | anti-RBP1 antibody

Anti-RBP1 Antibody Picoband

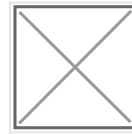
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19800	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

RBP1; Polyclonal Antibody; Anti-RBP1 Antibody Picoband; Heterogeneous nuclear ribonucleoprotein L; ubiquitin like modifier activating enzyme 2; SUMO-activating enzyme subunit 2; Anthracycline-associated resistance ARX; Ubiquitin-like 1-activating enzyme E1B; Ubiquitin-like modifier-activating enzyme 2; UBA2; SAE2; UBLE1B; HRIHFB2115; anti-RBP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Duodenum, heart, lung and liver, but not thymus.
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-RBP1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human, Rat IHC(Paraffin-embedded Section): 2-5ug/ml, Human, Mouse, Rat ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human RBP1 recombinant protein (Position: K10-Q135).
Subcellular Localization	Cytoplasm, Nucleus. Shuttles between the cytoplasm and the nucleus, sumoylation is required either for nuclear translocation or nuclear retention
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	The heterodimer acts as an E1 ligase for SUMO1, SUMO2, SUMO3, and probably SUMO4. It mediates ATP-dependent activation of SUMO proteins followed by formation of a thioester bond between a SUMO protein and a conserved active site cysteine residue on UBA2/SAE2.
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.



IF (Immunofluorescence)

Figure 7. IF analysis of RBP1 using anti-RBP1 antibody (AAA19800) and anti-Tubulin Alpha antibody (M03989-3). RBP1 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RBP1 Antibody (AAA19800) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RBP1 Antibody (AAA19800) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RBP1 Antibody (AAA19800) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RBP1 Antibody (AAA19800) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RBP1 Antibody (AAA19800) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: rat 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-RBP1 antigen affinity purified polyclonal antibody (#AAA19800) 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 RBP1 at approximately 16 kDa. The expected band size for RBP1 is at 16 kDa.

UniProt Accession #	P09455; Q6FGX8; A8K2Q0; B7Z7A0; E7EWW0; F2Z2F2
Molecular Weight	17,523 Da
NCBI Official Full Name	retinol-binding protein 1 isoform b
NCBI Official Synonym Full Names	retinol binding protein 1, cellular
NCBI Official Symbol	RBP1
NCBI Official Synonym Symbols	CRBP; RBPC; CRBP1; CRBPI; CRABP-I
NCBI Protein Information	retinol-binding protein 1; CRBP-I; cellular retinol-binding protein I; retinol-binding protein 1, cellular
UniProt Protein Name	Retinol-binding protein 1
UniProt Gene Name	RBP1
UniProt Synonym Gene Names	CRBP1; CRBP; CRBP-I
UniProt Entry Name	RET1_HUMAN

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rbp1-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19800>