

Rabbit APOBEC3C Polyclonal Antibody | anti-APOBEC3C antibody

Anti-APOBEC3C Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19889	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

APOBEC3C; Polyclonal Antibody; Anti-APOBEC3C Antibody Picoband; DNA dC->dU-editing enzyme APOBEC-3C; apolipoprotein B mRNA editing enzyme catalytic subunit 3C; APOBEC1L; PBI; A3C; EC 3.5.4.38; APOBEC1-like; Phorbolin I; anti-APOBEC3C antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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-APOBEC3C antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human APOBEC3C.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
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 (Flow Cytometry)

Figure 6. Flow Cytometry analysis of K562 cells using anti-APOBEC3C antibody (AAA19889). Overlay histogram showing K562 cells stained with AAA19889 (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-APOBEC3C Antibody (AAA19889, 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 5. IF analysis of APOBEC3C using anti-APOBEC3C antibody (AAA19889) and anti-Beta Tubulin antibody (M01857-3). APOBEC3C was detected in immunocytochemical section of HELA 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-APOBEC3C Antibody (AAA19889) 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-APOBEC3C Antibody (AAA19889) 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-APOBEC3C Antibody (AAA19889) 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: human K562 whole cell lysates, Lane 3: human HEL whole cell lysates, Lane 4: human A431 whole cell lysates, Lane 5: rat spleen tissue lysates, Lane 6: rat PC-12 whole cell lysates, Lane 7: mouse spleen tissue lysates, Lane 8: mouse RAW264.7 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-APOBEC3C antigen affinity purified polyclonal antibody (#AAA19889) 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 APOBEC3C at approximately 23 kDa. The expected band size for APOBEC3C is at 23 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-APOBEC3C 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-APOBEC3C antibody	Primary Antibodies
References	1. Harris, R. S., Petersen-Mahrt, S. K., Neuberger, M. S. RNA editing enzyme APOBEC1 and some of its homologs can act as DNA mutators. Molec. Cell 10: 1247-1253, 2002.2. Jarmuz, A., Chester, A., Bayliss, J., Gisbourne, J., Dunham, I., Scott, J., Navaratnam, N. An anthropoid-specific locus of orphan C to U RNA-editing enzymes on chromosome 22. Genomics 79: 285-296, 2002.3. Stauch, B., Hofmann, H., Perkovic, M., Weisel, M., Kopietz, F., Cichutek, K., Munk, C., Schneider, G. Model structure of APOBEC3C reveals a binding pocket modulating ribonucleic acid interaction required for encapsidation. Proc. Nat. Acad. Sci. 106: 12079-12084, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	22907039
NCBI GeneID	27350
NCBI Accession #	NP_055323
NCBI GenBank Nucleotide #	NM_014508
UniProt Accession #	Q9NRW3; Q5JZ92; Q7Z2N7; Q96F12; B2R884
Molecular Weight	22,826 Da
NCBI Official Full Name	DNA dC->dU-editing enzyme APOBEC-3C

NCBI Official Synonym Full Names	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3C
NCBI Official Symbol	APOBEC3C
NCBI Official Synonym Symbols	A3C; PBI; ARP5; ARDC2; ARDC4; APOBEC1L; bK150C2.3
NCBI Protein Information	DNA dC->dU-editing enzyme APOBEC-3C; apolipoprotein B editing enzyme catalytic polypeptide-like 3C; phorbolins; probable DNA dC->dU-editing enzyme APOBEC-3C
UniProt Protein Name	DNA dC->dU-editing enzyme APOBEC-3C
UniProt Gene Name	APOBEC3C
UniProt Synonym Gene Names	APOBEC1L; PBI; A3C
UniProt Entry Name	ABC3C_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/apobec3c-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19889>