

Rabbit anti-Human, Rat RNF20 Polyclonal Antibody | anti-RNF20 antibody

Anti-RNF20 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126310	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

RNF20; Polyclonal Antibody; Anti-RNF20 Antibody Picoband; anti-RNF20 antibody

PRODUCT SPECIFICATIONS

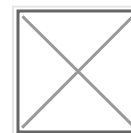
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-RNF20 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human RNF20 recombinant protein (Position: E123-S389).
Preparation and Storage	Store 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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U87 cells using anti-RNF20 antibody (AAA126310). Overlay histogram showing U87 cells stained with AAA126310 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RNF20 Antibody (AAA126310, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of RNF20 using anti-RNF20 antibody (AAA126310). RNF20 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-RNF20 Antibody (AAA126310) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of RNF20 using anti-RNF20 antibody (AAA126310). 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 Hela whole cell lysates, Lane 2: human Jurkat whole cell lysates, Lane 3: human HEK293 whole cell lysates, Lane 4: 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-RNF20 antigen affinity purified polyclonal antibody (#AAA126310) at 0.5 ug/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 RNF20 at approximately 114 kDa. The expected band size for RNF20 is at 114 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RNF20 antibody	E3 ubiquitin-protein ligase BRE1A is an enzyme that in humans is encoded by the RNF20 gene. The protein encoded by this gene shares similarity with BRE1 of <i>S. cerevisiae</i> . The protein encoded by this human gene is an E3 ubiquitin ligase that regulates chromosome structure by monoubiquitinating histone H2B. This protein acts as a putative tumor suppressor and positively regulates the p53 tumor suppressor as well as numerous histone H2A and H2B genes. In contrast, this protein also suppresses the expression of several protooncogenes and growth-related genes, including many genes that are induced by epidermal growth factor. This gene selectively suppresses the expression of some genes by interfering with chromatin recruitment of transcription elongation factor SII (TFIIS).
Product Categories/Family for anti-RNF20 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	84027766
NCBI GeneID	56254
UniProt Accession #	Q5VTR2; Q2TB34; Q69YL5; Q6P527; Q8N3J4; Q96JD3; Q9H9Y7; Q9HA51; Q9NUR4; Q9NWQ3; Q9NX83; A7MCT5
Molecular Weight	975
NCBI Official Full Name	E3 ubiquitin-protein ligase BRE1A
NCBI Official Synonym Full Names	ring finger protein 20, E3 ubiquitin protein ligase
NCBI Official Symbol	RNF20
NCBI Official Synonym Symbols	BRE1; BRE1A; hBRE1
NCBI Protein Information	E3 ubiquitin-protein ligase BRE1A; BRE1-A; homolog of <i>S. cerevisiae</i> BRE1; BRE1 E3 ubiquitin ligase homolog
UniProt Protein Name	E3 ubiquitin-protein ligase BRE1A
UniProt Gene Name	RNF20
UniProt Synonym Gene Names	BRE1A; BRE1-A; hBRE1
UniProt Entry Name	BRE1A_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.