

Rabbit RNF212 Polyclonal Antibody | anti-RNF212 antibody

Anti-RNF212 Antibody Picoband

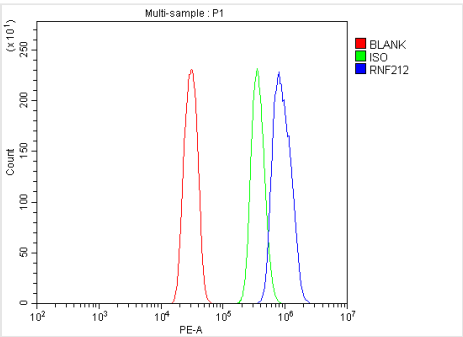
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127722	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

RNF212; Polyclonal Antibody; Anti-RNF212 Antibody Picoband; eva-1 homolog A; regulator of programmed cell death; Protein eva-1 homolog A; Protein FAM176A; Transmembrane protein 166; EVA1A; FAM176A; TMEM166; SP24; anti-RNF212 antibody

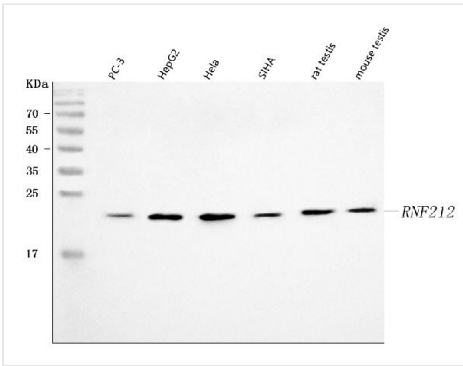
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in lung, kidney, liver, pancreas, placenta, but not in heart and skeletal muscle.
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-RNF212 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RNF212 recombinant protein (Position: Q12-E271).
Subcellular Localization	Endoplasmic reticulum membrane, Single-pass membrane protein, Lysosome membrane
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	Acts as a regulator of programmed cell death, mediating both autophagy and apoptosis.
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 SiHa cells using anti-RNF212 antibody (AAA127722).Overlay histogram showing SiHa cells stained with AAA127722 (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-RNF212 Antibody (AAA127722, 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 RNF212 using anti-RNF212 antibody (AAA127722).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 PC-3 whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human Hela whole cell lysates,Lane 4: human SIHA whole cell lysates,Lane 5: rat testis tissue lysates,Lane 6: mouse testis 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-RNF212 antigen affinity purified polyclonal antibody (#AAA127722) 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 RNF212 at approximately 22 kDa. The expected band size for RNF212 is at 33 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RNF212 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-RNF212 antibody	Primary Antibodies; Cell Biology; Proteasome/Ubiquitin; Proteolysis/Ubiquitin; Ubiquitin E3 Enzymes
References	1. Ahuja, J. S., Sandhu, R., Mainpal, R., Lawson, C., Henley, H., Hunt, P. A., Yanowitz, J. L., Borner, G. V. Control of meiotic pairing and recombination by chromosomally tethered 26S proteasome. Science 355: 408-411, 2017. 2. Jantsch, V., Pasierbek, P., Mueller, M. M., Schweizer, D., Jantsch, M., Loidl, J. Targeted gene knockout reveals a role in meiotic recombination for ZHP-3, a Zip3-related protein in Caenorhabditis elegans. Molec. Cell. Biol. 24: 7998-8006, 2004. 3. Kong, A., Thorleifsson, G., Stefansson, H., Masson, G., Helgason, A., Gudbjartsson, D. F., Jonsdottir, G. M., Gudjonsson, S. A., Sverrisson, S., Thorlacius, T., Jonasdottir, A., Hardarson, G. A., Palsson, S. T., Frigge, M. L., Gulcher, J. R., Thorsteinsdottir, U., Stefansson, K. Sequence variants in the RNF212 gene associate with genome-wide recombination rate. Science 319: 1398-1401, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	300863140
NCBI GeneID	285498
NCBI Accession #	NP_001180247
NCBI GenBank Nucleotide #	NM_001193318
UniProt Accession #	Q495C1; Q495C0; Q86W82; Q8IY99; Q8N8U7; C9J8N0
Molecular Weight	30,357 Da
NCBI Official Full Name	probable E3 SUMO-protein ligase RNF212 isoform c
NCBI Official Synonym Full Names	ring finger protein 212

NCBI Official Symbol	RNF212
NCBI Official Synonym Symbols	ZHP3
NCBI Protein Information	probable E3 SUMO-protein ligase RNF212
UniProt Protein Name	Probable E3 SUMO-protein ligase RNF212
UniProt Gene Name	RNF212
UniProt Entry Name	RN212_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://www.aaabiotech.com/polyclonal/rnf212-antibody-flow-cytometry-western-blot-elisa/127722>