

Rabbit anti-Human RUFY2 Polyclonal Antibody | anti-RUFY2 antibody

Anti-RUFY2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127781	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

RUFY2; Polyclonal Antibody; Anti-RUFY2 Antibody Picoband; Follicular dendritic cell secreted peptide; FDC secreted protein; FDC-SP; FDCSP; C4orf7; UNQ733/PRO1419; anti-RUFY2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Abundantly expressed in tonsil, lymph node, and trachea; strong expression in prostate; lower expression in thyroid, stomach, and colon.
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-RUFY2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human RUFY2 recombinant protein (Position: E239-K551).
Subcellular Localization	Secreted
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	Can bind to the surface of B-lymphoma cells, but not T- lymphoma cells, consistent with a function as a secreted mediator acting upon B-cells.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U2OS cells using anti-RUFY2 antibody (AAA127781).Overlay histogram showing U2OS cells stained with AAA127781 (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-RUFY2 Antibody (AAA127781, 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 2. IF analysis of RUFY2 and Tubulin beta using anti-RUFY2 antibody (AAA127781) and anti-Tubulin beta antibody (M05613-4).RUFY2 and Tubulin beta was detected in an immunocytochemical section of U87 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-RUFY2 Antibody (AAA127781) and mouse anti-Tubulin beta Antibody (M05613-4) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of RUFY2 using anti-RUFY2 antibody (AAA127781). 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 U251 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-RUFY2 antigen affinity purified polyclonal antibody (#AAA127781) 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 RUFY2 at approximately 69 kDa. The expected band size for RUFY2 is at 65-70 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RUFY2 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-RUFY2 antibody	Primary Antibodies; Immunology; Secreted Molecules
References	1. Majercak, J., Ray, W. J., Espeseth, A., Simon, A., Shi, X.-P., Wolffe, C., Getty, K., Marine, S., Stec, E., Ferrer, M., Strulovici, B., Bartz, S., and 17 others. LRRTM3 promotes processing of amyloid-precursor protein by BACE1 and is a positional candidate gene for late-onset Alzheimer's disease. Proc. Nat. Acad. Sci. 103: 17967-17972, 2006. 2. Nagase, T., Kikuno, R., Ishikawa, K., Hirose, M., Ohara, O. Prediction of the coding sequences of unidentified human genes. XVII. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro. DNA Res. 7: 143-150, 2000. 3. Yang, J., Kim, O., Wu, J., Qiu, Y. Interaction between tyrosine kinase Etk and a RUN domain- and FYVE domain-containing protein RUFY1: a possible role of ETK in regulation of vesicle trafficking. J. Biol. Chem. 277: 30219-30226, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	109240552
NCBI GeneID	55680
NCBI Accession #	NP_001035882.1
NCBI GenBank Nucleotide #	NM_001042417.1
UniProt Accession #	Q8WXA3; Q5TC48; Q8IW33; Q96P51; Q9P1Z1; B3KXB2; B4DFR0
Molecular Weight	75,055 Da
NCBI Official Full Name	RUN and FYVE domain-containing protein 2 isoform b
NCBI Official Synonym Full Names	RUN and FYVE domain containing 2
NCBI Official Symbol	RUFY2
NCBI Official Synonym Symbols	RABIP4R; ZFYVE13
NCBI Protein Information	RUN and FYVE domain-containing protein 2; antigen MU-RMS-40.17; RUN and FYVE domain-containing 2; rab4-interacting protein related; Run- and FYVE-domain containing protein
UniProt Protein Name	RUN and FYVE domain-containing protein 2
UniProt Gene Name	RUFY2
UniProt Synonym Gene Names	KIAA1537; RABIP4R

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/rufy2-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127781>