

Rabbit RUFY3 Polyclonal Antibody | anti-RUFY3 antibody

Anti-RUFY3 Antibody Picoband

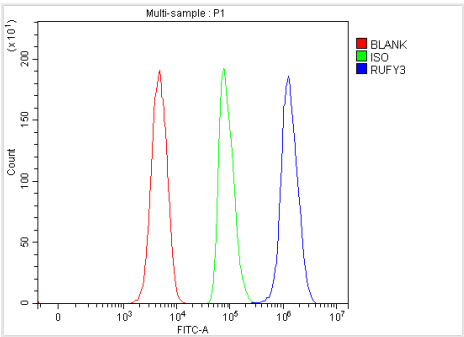
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127584	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

RUFY3; Polyclonal Antibody; Anti-RUFY3 Antibody Picoband; CD72 molecule; Mediator of RNA polymerase II transcription subunit 20; Mediator complex subunit 20; TRF-proximal protein homolog; hTRFP; MED20; TRFP; anti-RUFY3 antibody

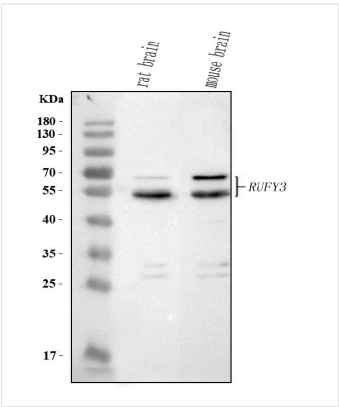
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Pre-B-cells and B-cells but not terminally differentiated plasma cells.
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-RUFY3 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Immunogen	E coli-derived human RUFY3 recombinant protein (Position: M1-H469).
Subcellular Localization	Nucleus
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	Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors.
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 SH-SY5Y cells using anti-RUFY3 antibody (AAA127584). Overlay histogram showing SH-SY5Y cells stained with AAA127584 (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-RUFY3 Antibody (AAA127584, 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 (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of RUFY3 using anti-RUFY3 antibody (AAA127584). 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: rat brain tissue lysates, Lane 2: mouse brain 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-RUFY3 antigen affinity purified polyclonal antibody (#AAA127584) 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 RUFY3 at approximately 53-65 kDa. The expected band size for RUFY3 is at 53-65 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RUFY3 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-RUFY3 antibody	Primary Antibodies; Epigenetics and Nuclear Signaling; Mediator Complex; Transcription
References	1. Hertz, N. T., Adams, E. L., Weber, R. A., Shen, R. J., O'Rourke, M. K., Simon, D. J., Zebroski, H., Olsen, O., Morgan, C. W., Mileur, T. R., Hitchcock, A. M., Sinnott Armstrong, N. A., Wainberg, M., Bassik, M. C., Molina, H., Wells, J. A., Tessier-Lavigne, M. Neuronally enriched RUFY3 is required for caspase-mediated axon degeneration. Neuron 103: 412-422, 2019. 2. Mori, T., Wada, T., Suzuki, T., Kubota, Y., Inagaki, N. Singar1, a novel RUN domain-containing protein, suppresses formation of surplus axons for neuronal polarity. J. Biol. Chem. 282: 19884-19893, 2007. 3. Nagase, T., Ishikawa, K., Suyama, M., Kikuno, R., Hirose, M., Miyajima, N., Tanaka, A., Kotani, H., Nomura, N., Ohara, O. Prediction of the coding sequences of unidentified human genes. XII. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro. DNA Res. 5: 355-364, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	82697315
NCBI GeneID	22902
NCBI Accession #	NP_001032519
NCBI GenBank Nucleotide #	NM_001037442
UniProt Accession #	Q7L099; O94948; Q9UI00; B3KM25; B4DYW7; D9N163
Molecular Weight	64,721 Da
NCBI Official Full Name	protein RUFY3 isoform 1
NCBI Official Synonym Full Names	RUN and FYVE domain containing 3

NCBI Official Symbol	RUFY3
NCBI Official Synonym Symbols	RIPX; SINGAR1; ZFYVE30
NCBI Protein Information	protein RUFY3; rap2 interacting protein x; single axon-regulated protein; single axon-related 1
UniProt Protein Name	Protein RUFY3
UniProt Gene Name	RUFY3
UniProt Synonym Gene Names	KIAA0871; RIPx; Singar
UniProt Entry Name	RUFY3_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/rufy3-antibody-flow-cytometry-western-blot-elisa/127584>