

Rabbit ROR2 Polyclonal Antibody | anti-ROR2 antibody

Anti-ROR2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127084	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

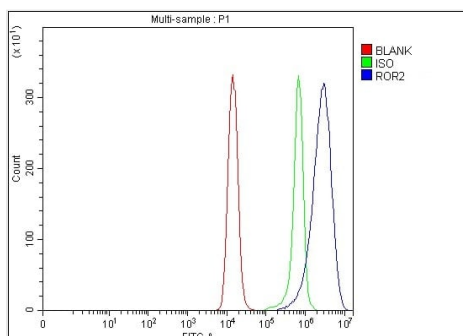
PRODUCT SYNONYMS

ROR2; Polyclonal Antibody; Anti-ROR2 Antibody Picoband; anti-ROR2 antibody

PRODUCT SPECIFICATIONS

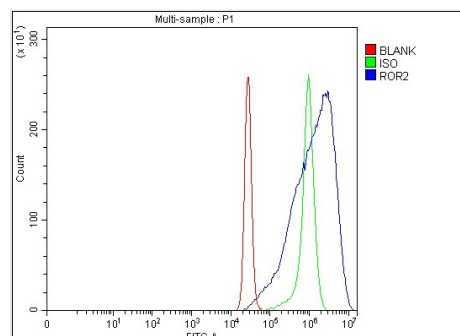
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-ROR2 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human ROR2 recombinant protein (Position: E499-Q547). Human ROR2 shares 93.9% amino acid (aa) sequence identity with mouse ROR2.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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



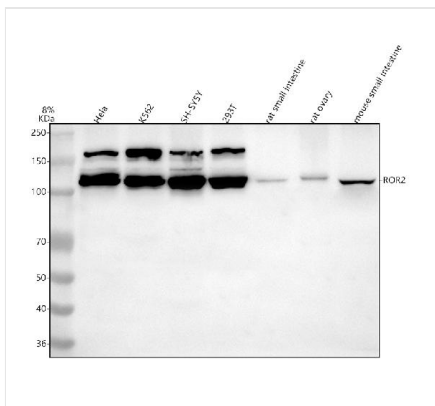
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of Raji cells using anti-ROR2 antibody (AAA127084). Overlay histogram showing Raji cells stained with AAA127084 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-ROR2 Antibody (AAA127084, 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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of K562 cells using anti-ROR2 antibody (AAA127084). Overlay histogram showing K562 cells stained with AAA127084 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-ROR2 Antibody (AAA127084, 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 ROR2 using anti-ROR2 antibody (AAA127084). 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 K562 whole cell lysates, Lane 3: human SH-SY5Y whole cell lysates, Lane 4: human 293T whole cell lysates, Lane 5: rat small intestine tissue lysates, Lane 6: rat ovary tissue lysates, Lane 8: mouse small intestine 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-ROR2 antigen affinity purified polyclonal antibody (#AAA127084) 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 ROR2 at approximately 105 kDa. The expected band size for ROR2 is at 105 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ROR2 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-ROR2 antibody	Primary Antibodies
References	1. Afzal, A. R., Jeffery, S. One gene, two phenotypes: ROR2 mutations in autosomal recessive Robinow syndrome and autosomal dominant brachydactyly type B. Hum. Mutat. 22: 1-11, 2003. 2. Afzal, A. R., Rajab, A., Fenske, C. D., Oldridge, M., Elanko, N., Ternes-Pereira, E., Tuysuz, B., Murday, V. A., Patton, M. A., Wilkie, A. O. M., Jeffery, S. Recessive Robinow syndrome, allelic to dominant brachydactyly type B, is caused by mutation of ROR2. Nature Genet. 25: 419-422, 2000. 3. Ali, B. R., Jeffery, S., Patel, N., Tinworth, L. E., Meguid, N., Patton, M. A., Afzal, A. R. Novel Robinow syndrome causing mutations in the proximal region of the frizzled-like domain of ROR2 are retained in the endoplasmic reticulum. Hum. Genet. 122: 389-395, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	90110767
NCBI GeneID	4920
UniProt Accession #	Q01974; Q59GF5; Q5SPI5; Q9HAY7; Q9HB61
Molecular Weight	943
NCBI Official Full Name	Tyrosine-protein kinase transmembrane receptor ROR2
NCBI Official Synonym Full Names	receptor tyrosine kinase-like orphan receptor 2
NCBI Official Symbol	ROR2
NCBI Official Synonym Symbols	BDB; BDB1; NTRKR2
NCBI Protein Information	tyrosine-protein kinase transmembrane receptor ROR2; neurotrophic tyrosine kinase receptor-related 2

UniProt Protein Name	Tyrosine-protein kinase transmembrane receptor ROR2
UniProt Gene Name	ROR2
UniProt Synonym Gene Names	NTRKR2
UniProt Entry Name	ROR2_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ror2-antibody-flow-cytometry-western-blot-elisa/127084>