

Rabbit anti-Human RGL4 Polyclonal Antibody | anti-RGL4 antibody

Anti-RGL4 Antibody Picoband

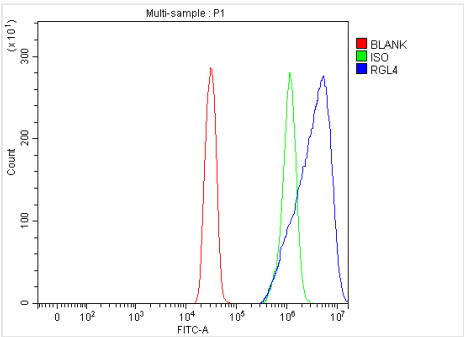
CATALOG # AAA127894	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
-------------------------------	-----------------------	----------------------------	--

PRODUCT SYNONYMS

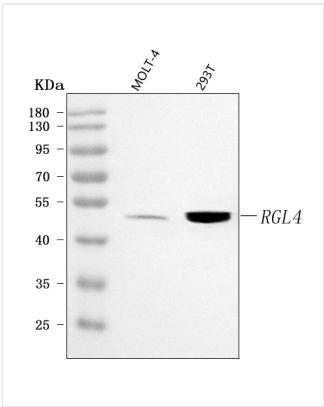
RGL4; Polyclonal Antibody; Anti-RGL4 Antibody Picoband; Transmembrane protein 240; kelch repeat and BTB domain containing 2; Kelch repeat and BTB domain-containing protein 2; BTB and kelch domain-containing protein 1; KBTBD2; BKLHD1; KIAA1489; anti-RGL4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine 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-RGL4 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RGL4 recombinant protein (Position: R37-R381).
Subcellular Localization	Cul3-RING ubiquitin ligase complex
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	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.
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-RGL4 antibody (AAA127894).Overlay histogram showing SiHa cells stained with AAA127894 (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-RGL4 Antibody (AAA127894, 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 RGL4 using anti-RGL4 antibody (AAA127894).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 MOLT-4 whole cell lysates,Lane 2: human 293T 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-RGL4 antigen affinity purified polyclonal antibody (#AAA127894) 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 RGL4 at approximately 52 kDa. The expected band size for RGL4 is at 52 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RGL4 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-RGL4 antibody	Primary Antibodies; Cell Biology
References	1. Hernandez-Munoz, I., Benet, M., Calero, M., Jimenez, M., Diaz, R., Pellicer, A. rgr oncogene: activation by elimination of translational controls and mislocalization. Cancer Res. 63: 4188-4195, 2003. 2. Leonardi, P., Kassin, E., Hernandez-Munoz, I., Diaz, R., Inghirami, G., Pellicer, A. Human rgr: transforming activity and alteration in T-cell malignancies. Oncogene 21: 5108-5116, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	23957680
NCBI GeneID	266747
NCBI Accession #	NP_705843
NCBI GenBank Nucleotide #	NM_153615
UniProt Accession #	Q8IZJ4; Q495L8
Molecular Weight	54,542 Da
NCBI Official Full Name	ral-GDS-related protein
NCBI Official Synonym Full Names	ral guanine nucleotide dissociation stimulator-like 4
NCBI Official Symbol	RGL4
NCBI Official Synonym Symbols	Rgr

NCBI Protein Information	ral-GDS-related protein; Ral-GDS related protein Rgr; RalGDS related oncogene; hRGR; ralGDS-like 4
UniProt Protein Name	Ral-GDS-related protein
UniProt Gene Name	RGL4
UniProt Synonym Gene Names	RGR; hRGR; RalGDS-like 4
UniProt Entry Name	RGDSR_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://www.aaabiotech.com/polyclonal/rgl4-antibody-flow-cytometry-western-blot-elisa/127894>