

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

Anti-RHBG Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127312	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

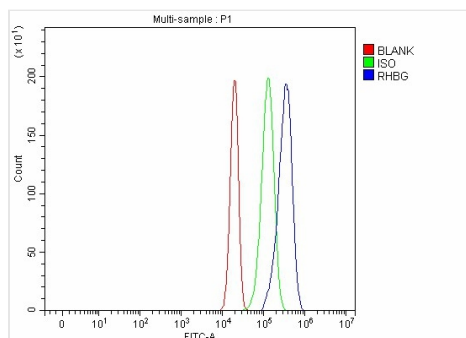
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

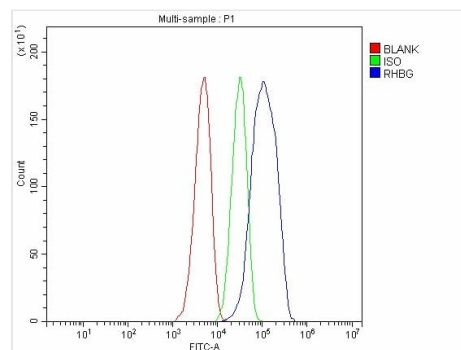
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-RHBG antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RHBG recombinant protein (Position: R7-L394). Human RHBG shares 87.2% amino acid (aa) sequence identity with mouse and rat RHBG.
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



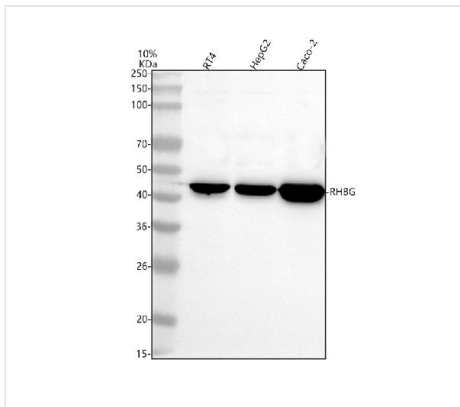
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of RT4 cells using anti-RHBG antibody (AAA127312). Overlay histogram showing RT4 cells stained with AAA127312 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-RHBG Antibody (AAA127312, 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 HepG2 cells using anti-RHBG antibody (AAA127312). Overlay histogram showing HepG2 cells stained with AAA127312 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-RHBG Antibody (AAA127312, 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 RHBG using anti-RHBG antibody (AAA127312). 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 RT4 whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human Caco-2 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-RHBG antigen affinity purified polyclonal antibody (#AAA127312) 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 RHBG at approximately 47 kDa. The expected band size for RHBG is at 49 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RHBG 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-RHBG antibody	Primary Antibodies
References	1. Khademi, S., O'Connell, J., III, Remis, J., Robles-Colmenares, Y., Miercke, L. J. W., Stroud, R. M. Mechanism of ammonia transport by Amt/MEP/Rh: Structure of AmtB at 1.35 Å. Science 305: 1587-1594, 2004.2. Liu, Z., Peng, J., Mo, R., Hui, C., Huang, C.-H. Rh type B glycoprotein is a new member of the Rh superfamily and a putative ammonia transporter in mammals. J. Biol. Chem. 276: 1424-1433, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	224548945
NCBI GeneID	57127
NCBI Accession #	NP_065140.3
NCBI GenBank Nucleotide #	NM_020407.4
UniProt Accession #	Q9H310; Q5SZW4; Q5SZW6; Q5SZW7; Q6P193; Q6YJI2; Q6YJI3; A8K475
Molecular Weight	32,092 Da
NCBI Official Full Name	ammonium transporter Rh type B isoform a
NCBI Official Synonym Full Names	Rh family, B glycoprotein (gene/pseudogene)
NCBI Official Symbol	RHBG
NCBI Official Synonym Symbols	SLC42A2
NCBI Protein Information	ammonium transporter Rh type B; Rhesus blood group, B glycoprotein

UniProt Protein Name	Ammonium transporter Rh type B
UniProt Gene Name	RHBG
UniProt Synonym Gene Names	Rh family type B glycoprotein; Rh type B glycoprotein
UniProt Entry Name	RHBG_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/rhbg-antibody-flow-cytometry-western-blot-elisa/127312>