

Rabbit anti-Human GRB7 Polyclonal Antibody | anti-GRB7 antibody

Anti-GRB7 Antibody

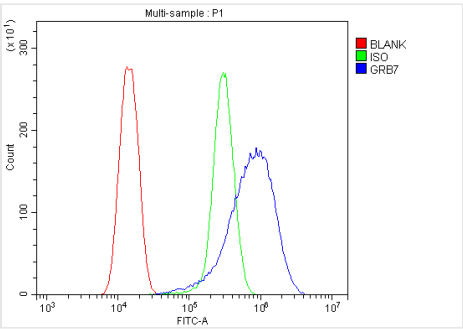
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125663	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

GRB7; Polyclonal Antibody; Anti-GRB7 Antibody; Growth factor receptor-bound protein 7; B47; Epidermal growth factor receptor GRB-7; GRB7 adapter protein; growth factor receptor bound protein 7; anti-GRB7 antibody

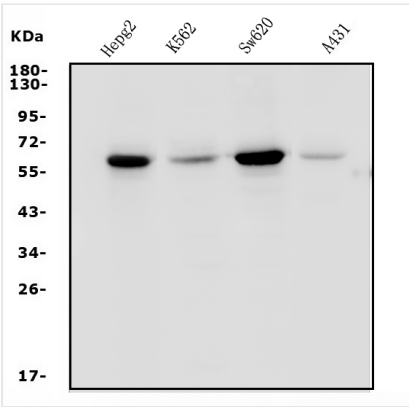
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for GRB7 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-GRB7 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human GRB7 recombinant protein (Position: R29-S256).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U2OS cells using anti-GRB7 antibody (AAA125663). Overlay histogram showing U2OS cells stained with AAA125663 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GRB7 Antibody (AAA125663, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/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 GRB7 using anti-GRB7 antibody (AAA125663). 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 50µg of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates Lane 2: human K562 whole cell lysates Lane 3: human SW620 whole cell lysates Lane 4: human A431 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-GRB7 antigen affinity purified polyclonal antibody (Catalog # AAA125663) at 0.5 µg/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 1:10000 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 GRB7 at approximately 60KDa. The expected band size for GRB7 is at 60KDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GRB7 antibody	GRB7, growth factor receptor-bound protein 7, is a protein which in humans is encoded by the GRB7 gene. The product of this gene belongs to a small family of adaptor proteins that are known to interact with a number of receptor tyrosine kinases and signaling molecules. This gene encodes a growth factor receptor-binding protein that interacts with epidermal growth factor receptor(EGFR) and ephrin receptors. The protein plays a role in the integrin signaling pathway and cell migration by binding with focal adhesion kinase(FAK). Alternative splicing results in multiple transcript variants encoding different isoforms, although the full-length nature of only two of the variants have been determined to date. GRB7 is an SH2-domain adaptor protein that binds to receptor tyrosine kinases and provides the intra-cellular direct link to the Ras proto-oncogene. Human GRB7 is located on the long arm of chromosome 17, next to the ERBB2(alias HER2/neu) proto-oncogene. These two genes are commonly co-amplified(present in excess copies) in breast cancers. GRB7 though to be involved in migration, is well known to be over-expressed in testicular germ cell tumors, esophageal cancers, and gastric cancers.
References	1. Tanaka, S., Mori, M., Akiyoshi, T., Tanaka, Y., Mafune, K., Wands, J. R., Sugimachi, K. A novel variant of human Grb7 is associated with invasive esophageal carcinoma. J. Clin. Invest. 102: 821-827, 1998. 2. Vayssiere, B., Zalcman, G., Mahe, Y., Mirey, G., Ligensa, T., Weidner, K. M., Chardin, P., Camonis, J. Interaction of the Grb7 adapter protein with Rnd1, a new member of the Rho family. FEBS Lett. 467: 91-96, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	71979667
NCBI GeneID	2886
NCBI Accession #	NP_001025173.1
NCBI GenBank Nucleotide #	NM_001030002.2
UniProt Accession #	Q14451; Q53YD3; Q92568; Q96DF9; Q9Y220; B2RAV1; B3KNL0; B3KWP9; B7WP75; J3KQM4
Molecular Weight	59,681 Da
NCBI Official Full Name	growth factor receptor-bound protein 7 isoform a

NCBI Official Synonym Full Names	growth factor receptor-bound protein 7
NCBI Official Symbol	GRB7
NCBI Protein Information	growth factor receptor-bound protein 7; B47; GRB7 adapter protein; epidermal growth factor receptor GRB-7
UniProt Protein Name	Growth factor receptor-bound protein 7
UniProt Gene Name	GRB7
UniProt Entry Name	GRB7_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/grb7-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125663>