

Mouse GRB10 Monoclonal Antibody | anti-GRB10 antibody

Anti-GRB10 Antibody (monoclonal, 5H7)

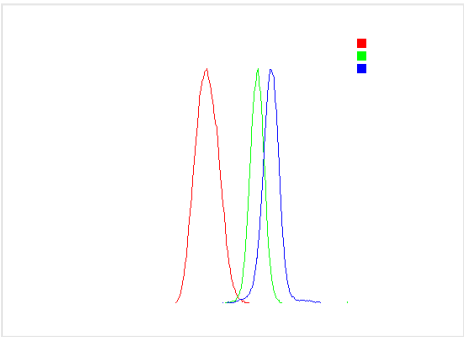
CATALOG # AAA125917	HOST Mouse	REACTIVITY Human, Monkey, Rat	APPLICATIONS Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

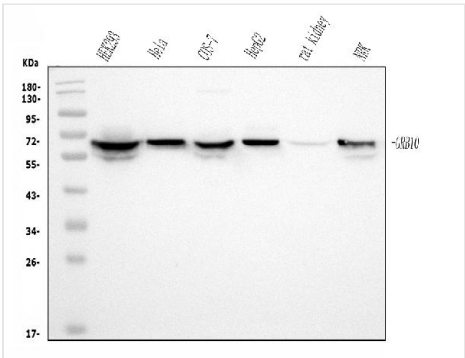
GRB10; Monoclonal Antibody; Anti-GRB10 Antibody (monoclonal; 5H7); GRBIR; KIAA0207; Growth factor receptor-bound protein 10; GRB10 adapter protein; Insulin receptor-binding protein Grb-IR; growth factor receptor bound protein 10; anti-GRB10 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Monkey, Rat
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	5H7
Specificity	Mouse IgG monoclonal antibody for GRB10 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-GRB10 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human GRB10 recombinant protein (Position: M1-K251).
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 THP-1 cells using anti-GRB10 antibody (AAA125917).Overlay histogram showing THP-1 cells stained with AAA125917 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-GRB10 Antibody (AAA125917, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse 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 GRB10 using anti-GRB10 antibody (AAA125917).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 30ug of sample under reducing conditions.Lane 1: human Hek293 whole cell lysatesLane 2: human Hela whole cell lysatesLane 3: monkey COS-7 whole cell lysatesLane 4: human HepG2 whole cell lysatesLane 5: rat kidney tissue lysatesLane 6: rat NRK 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 mouse anti- GRB10 antigen affinity purified monoclonal antibody (Catalog # AAA125917) 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-mouse 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 GRB10 at approximately 67KD. The expected band size for GRB10 is at 67KD.

ADDITIONAL INFORMATION

Related Product Information for anti-GRB10 antibody	GRB10, Growth factor receptor-bound protein 10, also known as insulin receptor-binding protein Grb-IR is a protein that in humans is encoded by the GRB10 gene. The product of this gene belongs to a small family of adapter 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 insulin receptors and insulin-like growth-factor receptors(e. g.. IGF1R and IGF2R). Overexpression of some isoforms of the encoded protein inhibits tyrosine kinase activity and results in growth suppression. This gene is imprinted in a highly isoform- and tissue-specific manner. Alternatively spliced transcript variants encoding different isoforms have been identified.
References	1. Arnaud, P., Monk, D., Hitchins, M., Gordon, E., Dean, W., Beechey, C. V., Peters, J., Craigen, W., Preece, M., Stanier, P., Moore, G. E., Kelsey, G. Conserved methylation imprints in the human and mouse GRB10 genes with divergent allelic expression suggests differential reading of the same mark. Hum. Molec. Genet. 12: 1005-1019, 2003. 2. Charalambous, M., Smith, F. M., Bennett, W. R., Crew, T. E., Mackenzie, F., Ward, A. Disruption of the imprinted Grb10 gene leads to disproportionate overgrowth by an Igf2-independent mechanism. Proc. Nat. Acad. Sci. 100: 8292-8297, 2003. 3. Frantz, J. D., Giorgetti-Peraldi, S., Ottinger, E. A., Shoelson, S. E. Human GRB-IR-beta/GRB10: splice variants of an insulin and growth factor receptor-binding protein with PH and SH2 domains. J. Biol. Chem. 272: 2659-2667, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	48762693
NCBI GeneID	2887
NCBI Accession #	NP_001001549.1
NCBI GenBank Nucleotide #	NM_001001549.2
UniProt Accession #	Q13322; O00427; O00701; O75222; Q92606; Q92907; Q92948; A4D258; A7VJ95; A8K0E6; D3DVM9
Molecular Weight	67,231 Da

NCBI Official Full Name	growth factor receptor-bound protein 10 isoform b
NCBI Official Synonym Full Names	growth factor receptor-bound protein 10
NCBI Official Symbol	GRB10
NCBI Official Synonym Symbols	RSS; IRBP; MEG1; GRB-IR; Grb-10
NCBI Protein Information	growth factor receptor-bound protein 10; GRB10 adapter protein; GRB10 adaptor protein; maternally expressed gene 1; insulin receptor-binding protein Grb-IR
UniProt Protein Name	Growth factor receptor-bound protein 10
UniProt Gene Name	GRB10
UniProt Synonym Gene Names	GRBIR; KIAA0207
UniProt Entry Name	GRB10_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://stage.aaabiotech.com/monoclonal/grb10-antibody-clone-5h7-flow-cytometry-western-blot-elisa/125917>