

Rabbit anti-Human, Mouse GAB2 Polyclonal Antibody | anti-GAB2 antibody

Anti-GAB2 Antibody Picoband

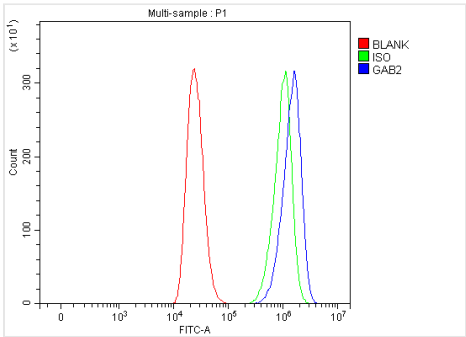
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127111	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

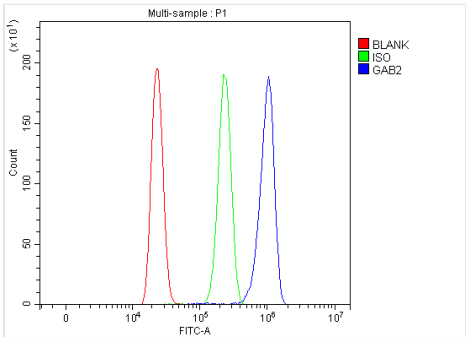
GAB2; Polyclonal Antibody; Anti-GAB2 Antibody Picoband; caspase 2; apoptosis-related cysteine peptidase; Caspase-2; CASP-2; Neural precursor cell expressed developmentally down-regulated protein 2; NEDD-2; Protease ICH-1; Caspase-2 subunit p18; Caspase-2 subunit p13; Caspase-2 subunit p12; CASP2; ICH1; NEDD2; anti-GAB2 antibody

PRODUCT SPECIFICATIONS

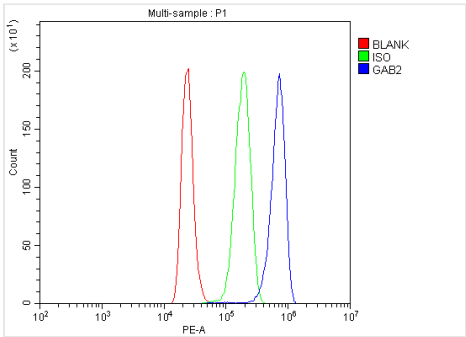
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle.
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-GAB2 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human GAB2 recombinant protein (Position: S162-R504).
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	Involved in the activation cascade of caspases responsible for apoptosis execution. Might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival.
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.



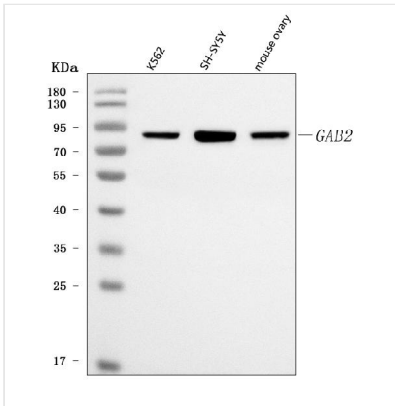
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of THP-1 cells using anti-GAB2 antibody (AAA127111).Overlay histogram showing THP-1 cells stained with AAA127111 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GAB2 Antibody (AAA127111, 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 HL-60 cells using anti-GAB2 antibody (AAA127111).Overlay histogram showing HL-60 cells stained with AAA127111 (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-GAB2 Antibody (AAA127111, 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 3. Flow Cytometry analysis of HL-60 cells using anti-GAB2 antibody (AAA127111).Overlay histogram showing HL-60 cells stained with AAA127111 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GAB2 Antibody (AAA127111, 1ug/1x106 cells) for 30 min at 20 degree C. PE conjugated goat anti-rabbit IgG (5-10ug/1x106 cells) 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 (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of GAB2 using anti-GAB2 antibody (AAA127111).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 K562 whole cell lysates,Lane 2: human SH-SY5Y whole cell lysates,Lane 3: mouse ovary 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-GAB2 antigen affinity purified polyclonal antibody (#AAA127111) at 0.25ug/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 GAB2 at approximately 90 kDa. The expected band size for GAB2 is at 74 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GAB2 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-GAB2 antibody	Primary Antibodies; Apoptosis; Apoptotic Markers; Cancer; Caspases; Cell Biology; Cell Death; Intracellular; Invasion/Microenvironment; Metabolism; Metabolism Processes; Pathways and Processes; Proteolysis/Ubiquitin; Proteolytic Enzymes

References	1. Bentires-Alj, M., Gil, S. G., Chan, R., Wang, Z. C., Wang, Y., Imanaka, N., Harris, L. N., Richardson, A., Neel, B. G., Gu, H. A role for the scaffolding adapter GAB2 in breast cancer. <i>Nature Med.</i> 12: 114-121, 2006. 2. Chapuis, J., Hannequin, D., Pasquier, F., Bentham, P., Brice, A., Leber, I., Frebourg, T., Deleuze, J.-F., Cousin, E., Thaker, U., Amouyel, P., Mann, D., Lendon, C., Campion, D., Lambert, J.-C. Association study of the GAB2 gene with the risk of developing Alzheimer's disease. <i>Neurobiol. Dis.</i> 30: 103-106, 2008. 3. Gu, H., Saito, K., Klamann, L. D., Shen, J., Fleming, T., Wang, Y.-P., Pratt, J. C., Lin, G., Lim, B., Kinet, J.-P., Neel, B. G. Essential role for Gab2 in the allergic response. <i>Nature</i> 412: 186-190, 2001.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6912460
NCBI GeneID	9846
NCBI Accession #	NP_036428.1
NCBI GenBank Nucleotide #	NM_012296.3
UniProt Accession #	Q9UQC2; O60317; A2RRM2; A6NEW9; A7MD36
Molecular Weight	74,458 Da
NCBI Official Full Name	GRB2-associated-binding protein 2 isoform b
NCBI Official Synonym Full Names	GRB2-associated binding protein 2
NCBI Official Symbol	GAB2
NCBI Protein Information	GRB2-associated-binding protein 2; pp100; Grb2-associated binder 2; growth factor receptor bound protein 2-associated protein 2
UniProt Protein Name	GRB2-associated-binding protein 2
UniProt Gene Name	GAB2
UniProt Synonym Gene Names	KIAA0571
UniProt Entry Name	GAB2_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.