

Rabbit anti-Human GAREM1 Polyclonal Antibody | anti-GAREM1 antibody

Anti-GAREM1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127764	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

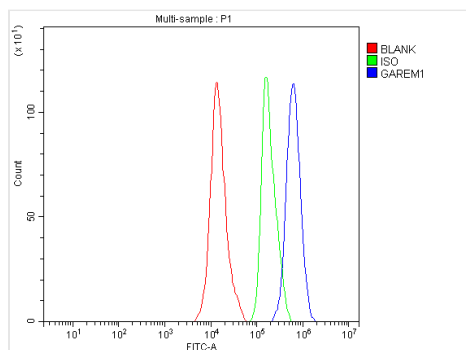
PRODUCT SYNONYMS

GAREM1; Polyclonal Antibody; Anti-GAREM1 Antibody Picoband; anti-GAREM1 antibody

PRODUCT SPECIFICATIONS

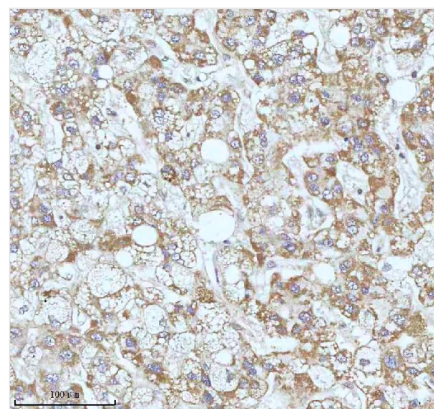
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-GAREM1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human GAREM1 recombinant protein (Position: Q277-E753). Human GAREM1 shares 86.8% amino acid (aa) sequence identity with mouse GAREM1.
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



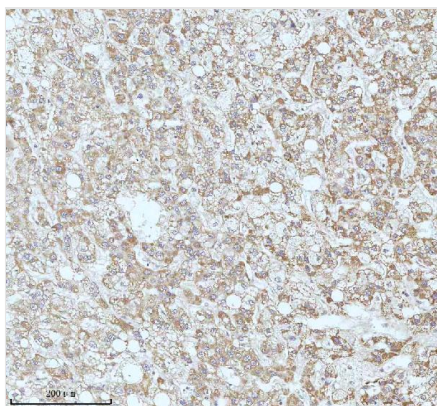
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of SH-SY5Y cells using anti-GAREM1 antibody (AAA127764). Overlay histogram showing SH-SY5Y cells stained with AAA127764 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-GAREM1 Antibody (AAA127764, 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 (Red line) was also used as a control.



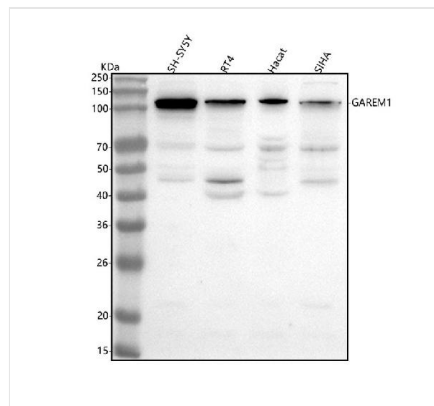
IHC (Immunohistochemistry)

Figure 3. IHC analysis of GAREM1 using anti-GAREM1 antibody (AAA127764). GAREM1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-GAREM1 Antibody (AAA127764) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of GAREM1 using anti-GAREM1 antibody (AAA127764). GAREM1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 μg/ml rabbit anti-GAREM1 Antibody (AAA127764) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of GAREM1 using anti-GAREM1 antibody (AAA127764). 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 μg of sample under reducing conditions. Lane 1: human SH-SY5Y whole cell lysates, Lane 2: human RT4 whole cell lysates, Lane 3: human Hec29 whole cell lysates, Lane 4: human SIHA 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-GAREM1 antigen affinity purified polyclonal antibody (#AAA127764) 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 1:5000 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 GAREM1 at approximately 97 kDa. The expected band size for GAREM1 is at 97 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GAREM1 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-GAREM1 antibody	Primary Antibodies
References	1. Nishino, T., Matsunaga, R., Konishi, H. Functional relationship between CABIT, SAM and 14-3-3 binding domains of GAREM1 that play a role in its subcellular localization. <i>Biochem. Biophys. Res. Commun.</i> 464: 616-621, 2015. 2. Taniguchi, T., Tanaka, S., Ishii, A., Watanabe, M., Fujitani, N., Sugeo, A., Gotoh, S., Ohta, T., Hiyoshi, M., Matsuzaki, H., Sakai, N., Konishi, H. A brain-specific Grb2-associated regulator of extracellular signal-regulated kinase (Erk) mitogen-activated protein kinase (MAPK) (GAREM) subtype, GAREM2, contributes to neurite outgrowth of neuroblastoma cells by regulating Erk signaling. <i>J. Biol. Chem.</i> 288: 29934-29942, 2013. 3. Tashiro, K., Tsunematsu, T., Okubo, H., Ohta, T., Sano, E., Yamauchi, E., Taniguchi, H., Konishi, H. GAREM, a novel adaptor protein for growth factor receptor-bound protein 2, contributes to cellular transformation through activation of extracellular signal-regulated kinase signaling. <i>J. Biol. Chem.</i> 284: 20206-20214, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	125991851
NCBI GeneID	64762
UniProt Accession #	Q9H706 ; Q0VAG3 ; Q0VAG4 ; Q8ND03 ; Q9BSF5
Molecular Weight	97,099 Da
NCBI Official Full Name	GRB2-associated and regulator of MAPK protein
NCBI Official Synonym Full Names	GRB2 associated, regulator of MAPK1
NCBI Official Symbol	GAREM
NCBI Official Synonym Symbols	Gm944; FAM59A; C18orf11

NCBI Protein Information	GRB2-associated and regulator of MAPK protein; protein FAM59A; GRB2-associated and regulator of MAPK1; Grb2-associated and regulator of Erk/MAPK; family with sequence similarity 59, member A
UniProt Protein Name	GRB2-associated and regulator of MAPK protein
UniProt Gene Name	GAREM
UniProt Synonym Gene Names	C18orf11; FAM59A
UniProt Entry Name	GAREM_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/garem1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127764>