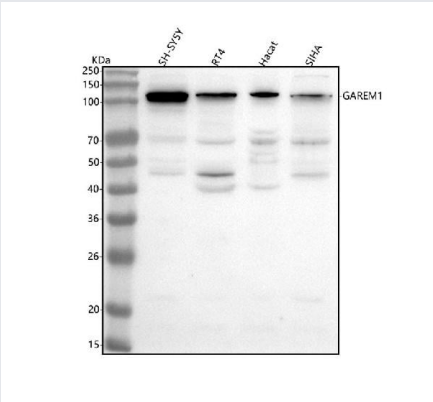
GAREM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

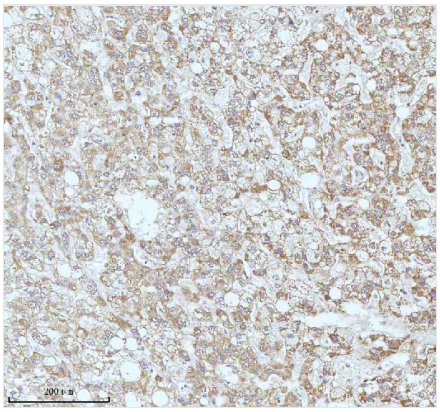
Product Name	GAREM1, Polyclonal Antibody
Full Product Name	Anti-GAREM1 Antibody Picoband
Product Gene Name	anti-GAREM1 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
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.
Molecular Weight	97,099 Da
3D Structure	ModBase 3D Structure for Q9H706
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.
Product Categories/Family for anti-GAREM1 antibody	Primary Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-GAREM1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-GAREM1 antibody	WB: 0.25-0.5ug/ml, Human IHC: 2-5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
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 References and Citations for anti-GAREM1 antibody	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. Biochem. Biophys. Res. Commun. 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. J. Biol. Chem. 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. J. Biol. Chem. 284: 20206-20214, 2009.
Other Notes	Small volumes of anti-GAREM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for GAREM1 purchase	MBS1759287 is an antibody targeting GAREM1. Also known as Anti-GAREM1 Antibody Picoband. Reactive in Human. Host: Rabbit.



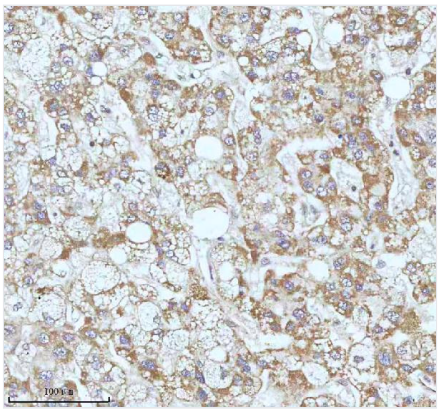
Western Blot (WB) of anti-GAREM1 antibody

Figure 1. Western blot analysis of GAREM1 using anti-GAREM1 antibody (MBS1759287).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 SH-SY5Y whole cell lysates,Lane 2: human RT4 whole cell lysates,Lane 3: human Hacat 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 (#MBS1759287) 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 (#MBS176460) 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.



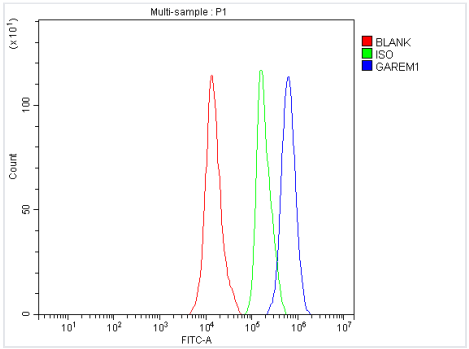
Immunohistochemistry (IHC) of anti-GAREM1 antibody

Figure 2. IHC analysis of GAREM1 using anti-GAREM1 antibody (MBS1759287).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 (MBS1759287) 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 (#MBS176453) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-GAREM1 antibody

Figure 3. IHC analysis of GAREM1 using anti-GAREM1 antibody (MBS1759287).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 (MBS1759287) 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 (#MBS176453) with DAB as the chromogen.



Flow Cytometry (FC/FACS) of anti-GAREM1 antibody

Figure 4. Flow Cytometry analysis of SH-SY5Y cells using anti-GAREM1 antibody (MBS1759287).Overlay histogram showing SH-SY5Y cells stained with MBS17592871 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-GAREM1 Antibody (MBS1759287, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GAREM1. It may not necessarily be applicable to this product.

NCBI GI #	125991851
NCBI GeneID	64762
NCBI Accession #	Q9H706.2

UniProt Primary Accession #	Q9H706
UniProt Secondary Accession #	Q0VAG3; Q0VAG4; Q8ND03; Q9BSF5
UniProt Related Accession #	Q9H706
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
UniProt Protein Name	GRB2-associated and regulator of MAPK protein
UniProt Synonym Protein Names	GRB2-associated and regulator of MAPK1
Protein Family	GRB2-associated and regulator of MAPK protein
UniProt Gene Name	GAREM
UniProt Synonym Gene Names	C18orf11; FAM59A
UniProt Entry Name	GAREM_HUMAN
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
NCBI Summary for GAREM1	This gene encodes an adaptor protein which functions in the epidermal growth factor (EGF) receptor-mediated signaling pathway. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]
UniProt Comments for GAREM1	GAREM: a protein of unknown function. Contains a predicted ATPase (AAA+ superfamily). Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 18q12.1 Cellular Component: plasma membrane Molecular Function: protein binding Biological Process: epidermal growth factor receptor signaling pathway; positive regulation of cell division; positive regulation of cell proliferation
Research Articles on GAREM1	**1.** Data indicate that a subtype of GAREM, GAREM2, is specifically expressed in the mouse, rat, and human brain.
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