

Rabbit MGAM Polyclonal Antibody | anti-MGAM antibody

Anti-MGAM Antibody Picoband

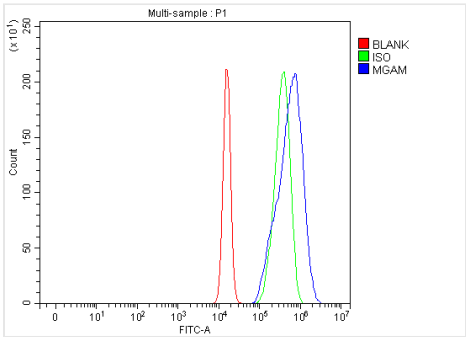
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127439	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

MGAM; Polyclonal Antibody; Anti-MGAM Antibody Picoband; Gamma-aminobutyric acid type B receptor subunit 1; mesoderm posterior bHLH transcription factor 1; Mesoderm posterior protein 1; Class C basic helix-loop-helix protein 5; bHLHc5; MESP1; BHLHC5; anti-MGAM antibody

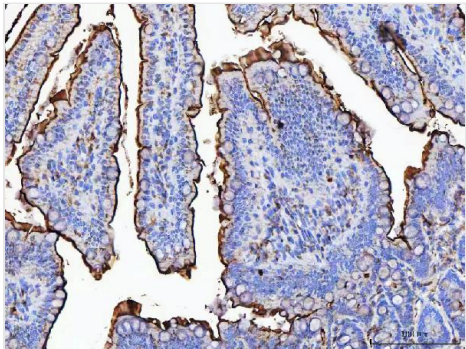
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly expressed in brain and weakly in heart, small intestine and uterus. Isoform 1A is mostlyExpressed in granular cell and molecular layer. Isoform 1B is mostlyExpressed in Purkinje cells. Isoform 1E is predominantlyExpressed in peripheral tissues as kidney, lung, trachea, colon, small intestine, stomach, bone marrow, thymus and mammary gland.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-MGAM antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E coli-derived human MGAM recombinant protein (Position: Y131-I2697).
Subcellular Localization	Nucleus
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	Transcription factor. Plays a role in the epithelialization of somitic mesoderm and in the development of cardiac mesoderm. Defines the rostrocaudal patterning of the somites by participating in distinct Notch pathways.
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.



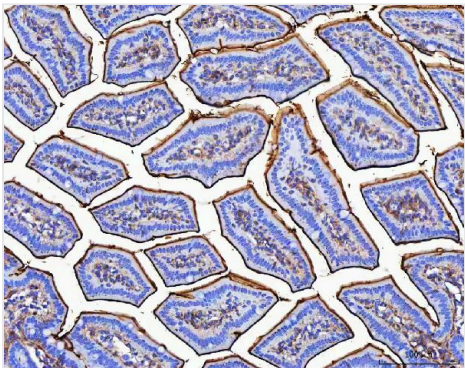
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of U20S cells using anti-MGAM antibody (AAA127439).Overlay histogram showing U20S cells stained with AAA127439 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-MGAM Antibody (AAA127439, 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.



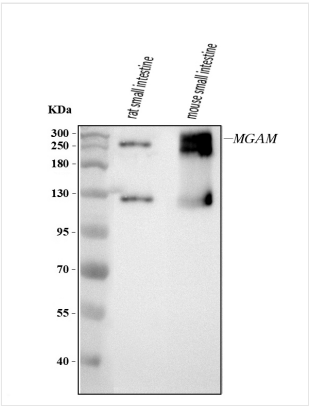
IHC (Immunohistochemistry)

Figure 2. IHC analysis of MGAM using anti-MGAM antibody .MGAM was detected in a paraffin-embedded section of rat colon 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-MGAM Antibody 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 3. IHC analysis of MGAM using anti-MGAM antibody .MGAM was detected in a paraffin-embedded section of mouse colon 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-MGAM Antibody 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 MGAM using anti-MGAM antibody (AAA127439).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: rat small intestine lysates,Lane 2: mouse small intestine 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-MGAM antigen affinity purified polyclonal antibody (#AAA127439) 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 with Tanon 5200 system. A specific band was detected for MGAM at approximately 240 kDa. The expected band size for MGAM is at 210 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MGAM 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-MGAM antibody	Primary Antibodies; Interleukins

References	1. Naim, H. Y., Sterchi, E. E., Lentze, M. J. Structure, biosynthesis, and glycosylation of human small intestinal maltase-glucoamylase. J. Biol. Chem. 263: 19709-19717, 1988.2. Nichols, B. L., Avery, S., Sen, P., Swallow, D. M., Hahn, D., Sterchi, E. The maltase-glucoamylase gene: common ancestry to sucrase-isomaltase with complementary starch digestion activities. Proc. Nat. Acad. Sci. 100: 1432-1437, 2003. 3. Nichols, B. L., Eldering, J., Avery, S., Hahn, D., Quaroni, A., Sterchi, E. Human small intestinal maltase-glucoamylase cDNA cloning: homology to sucrase-isomaltase. J. Biol. Chem. 273: 3076-3081, 1998.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	221316699
NCBI GeneID	8972
NCBI Accession #	NP_004659.2
NCBI GenBank Nucleotide #	NM_004668.2
UniProt Accession #	O43451; Q0VAX6; Q75ME7; Q86UM5
Molecular Weight	209,852 Da
NCBI Official Full Name	maltase-glucoamylase, intestinal
NCBI Official Synonym Full Names	maltase-glucoamylase (alpha-glucosidase)
NCBI Official Symbol	MGAM
NCBI Official Synonym Symbols	MG; MGA
NCBI Protein Information	maltase-glucoamylase, intestinal; brush border hydrolase
UniProt Protein Name	Maltase-glucoamylase, intestinal
UniProt Gene Name	MGAM
UniProt Synonym Gene Names	MGA; MGAML
UniProt Entry Name	MGA_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.