

Rabbit anti-Human GCM1 Polyclonal Antibody | anti-GCM1 antibody

Anti-GCM1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127235	Rabbit	Human	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

GCM1; Polyclonal Antibody; Anti-GCM1 Antibody Picoband; vascular endothelial growth factor B; Vascular endothelial growth factor B; VEGF-B; VEGF-related factor; VRF; VEGFB; anti-GCM1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in all tissues except liver. Highest levels found in heart, skeletal muscle and pancreas.
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-GCM1 antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human GCM1 recombinant protein (Position: E188-R436).
Subcellular Localization	Secreted. Secreted but remains associated to cells or to the extracellular matrix unless released by heparin
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	Growth factor for endothelial cells. VEGF-B167 binds heparin and neuropilin-1 whereas the binding to neuropilin-1 of VEGF-B186 is regulated by proteolysis.
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



IF (Immunofluorescence)

Figure 2. IF analysis of GCM1 using anti-GCM1 antibody (AAA127235).GCM1 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-GCM1 Antibody (AAA127235) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of GCM1 using anti-GCM1 antibody (AAA127235).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 HepG2 whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human placenta 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-GCM1 antigen affinity purified polyclonal antibody (#AAA127235) 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 GCM1 at approximately 49 kDa. The expected band size for GCM1 is at 49 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GCM1 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-GCM1 antibody	Primary Antibodies ; Angiogenesis ; Cancer ; Cardiovascular ; Growth Factors ; Growth Factors/Hormones ; Invasion/Microenvironment ; Neurogenesis ; Neurology Process ; Neuroscience ; Signal Transduction
References	1. Akiyama, Y., Hosoya, T., Poole, A. M., Hotta, Y. The gcm-motif: a novel DNA-binding motif conserved in Drosophila and mammals. Proc. Nat. Acad. Sci. 93: 14912-14916, 1996. 2. Anson-Cartwright, L., Dawson, K., Holmyard, D., Fisher, S. J., Lazzarini, R. A., Cross, J. C. The glial cells missing-1 protein is essential for branching morphogenesis in the chorioallantoic placenta. Nature Genet. 25: 311-314, 2000. 3. Gunther, T., Chen, Z.-F., Kim, J., Priemel, M., Rueger, J. M., Amling, M., Moseley, J. M., Martin, T. J., Anderson, D. J., Karsenty, G. Genetic ablation of parathyroid glands reveals another source of parathyroid hormone. Nature 406: 199-203, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	45269133
NCBI GeneID	8521
NCBI Accession #	NP_003634
NCBI GenBank Nucleotide #	NM_003643
UniProt Accession #	Q9NP62 ; Q4VAQ7 ; Q5T0X0 ; Q99468 ; Q9P1X3
Molecular Weight	49,268 Da
NCBI Official Full Name	chorion-specific transcription factor GCMA
NCBI Official Synonym Full Names	glial cells missing homolog 1 (Drosophila)
NCBI Official Symbol	GCM1
NCBI Official Synonym Symbols	GCMA; hGCMA
NCBI Protein Information	chorion-specific transcription factor GCMA; GCM motif protein 1
UniProt Protein Name	Chorion-specific transcription factor GCMA
UniProt Gene Name	GCM1
UniProt Synonym Gene Names	GCMA; hGCMA

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/polyclonal/gcm1-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/127235>