

Rabbit Repulsive Guidance Molecule A Polyclonal Antibody | anti-RGMA antibody

Repulsive Guidance Molecule A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329134	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Dog(100%), Chicken(100%)	ELISA

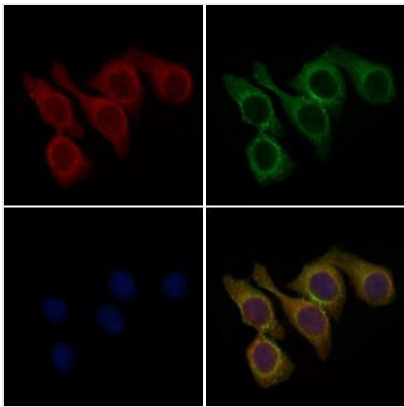
PRODUCT SYNONYMS

Repulsive Guidance Molecule A; Polyclonal Antibody; Repulsive Guidance Molecule A Antibody; Repulsive guidance molecule A; RGM; RGM domain family member A; RGMA; RGMA_HUMAN; anti-RGMA antibody

PRODUCT SPECIFICATIONS

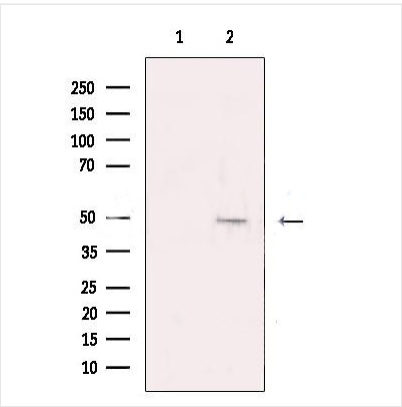
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Dog(100%), Chicken(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Repulsive Guidance Molecule A Antibody detects endogenous levels of total Repulsive Guidance Molecule A.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	450
Applicable Applications for anti-RGMA antibody	ELISA
Immunogen	A synthesized peptide derived from human Repulsive Guidance Molecule A, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



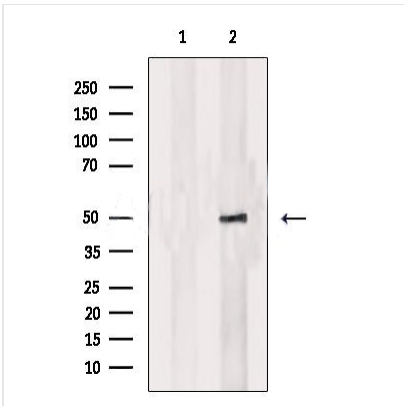
IF (Immunofluorescence)

AAA329134 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25Å°C. Samples were then incubated with primary Ab(AAA329134 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37Å°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from Rat Brain, using Repulsive Guidance Molecule A Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from HepG2 cells, using Repulsive Guidance Molecule A Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RGMA antibody

Function: Member of the repulsive guidance molecule (RGM) family that performs several functions in the developing and adult nervous system. Regulates cephalic neural tube closure, inhibits neurite outgrowth and cortical neuron branching, and the formation of mature synapses. Binding to its receptor NEO1/neogenin induces activation of RHOA-ROCK1/Rho-kinase signaling pathway through UNC5B-ARHGEF12/LARG-PTK2/FAK1 cascade, leading to collapse of the neuronal growth cone and neurite outgrowth inhibition. Furthermore, RGMA binding to NEO1/neogenin leads to HRAS inactivation by influencing HRAS-PTK2/FAK1-AKT1 pathway. It also functions as a bone morphogenetic protein (BMP) coreceptor that may signal through SMAD1, SMAD5, and SMAD8.

Post Translational Modifications: Autocatalytically cleaved at low pH; the two chains remain linked via two disulfide bonds.

Subcellular Location: Cell membrane>Lipid-anchor.

Subunit Structure: Interacts with NEO1, BMP2 and BMP4.

Similarity: Belongs to the repulsive guidance molecule (RGM) family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	296452979
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NCBI GeneID	56963
UniProt Accession #	Q96B86
Molecular Weight	Observed Molecular Weight: (Observed)49kD. Predicted Molecular Weight: (Calculated)49kDa.
NCBI Official Full Name	Repulsive guidance molecule A
NCBI Official Synonym Full Names	repulsive guidance molecule BMP co-receptor a
NCBI Official Symbol	RGMA
NCBI Official Synonym Symbols	RGM
NCBI Protein Information	repulsive guidance molecule A
UniProt Protein Name	Repulsive guidance molecule A
UniProt Gene Name	RGMA
UniProt Synonym Gene Names	RGM
UniProt Entry Name	RGMA_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/repulsive-guidance-molecule-a-antibody-elisa/329134>