

Anti-RGMA Rabbit Monoclonal Antibody

Catalog # ABO16133

Product Information

Application	WB, IF, ICC
Primary Accession	Q96B86
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-RGMA Rabbit Monoclonal Antibody . Tested in WB, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	56963
Other Names	Repulsive guidance molecule A, RGM domain family member A, RGMA (HGNC:30308), RGM
Calculated MW	49361
Application Details	WB 1:500-1:2000 ICC/IF 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 27R12
Immunogen	A synthesized peptide derived from human RGMA
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

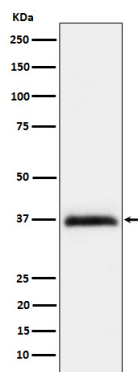
Name	RGMA (HGNC:30308)
Synonyms	RGM
Function	Member of the repulsive guidance molecule (RGM) family that performs several functions in the developing and adult nervous system. Regulates

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.

Cellular Location

Cell membrane; Lipid-anchor, GPI- anchor

Images



Western blot analysis of RGMA expression in HeLa cell lysate.

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