

RGMA Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP19179b**Specification**

RGMA Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q96B86](#)**RGMA Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 56963**Other Names**

Repulsive guidance molecule A, RGM domain family member A, RGMA, RGM

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RGMA Antibody (C-term) Blocking Peptide - 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

RGMA Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

RGMA Antibody (C-term) Blocking Peptide - Images

RGMA Antibody (C-term) Blocking Peptide - Background

This gene encodes a member of the repulsive guidance molecule family. The encoded protein is a glycosylphosphatidylinositol-anchored glycoprotein that functions as an axon guidance protein in the developing and adult central nervous system. This protein may also function as a tumor suppressor in some cancers. Alternate splicing results in multiple transcript variants.

RGMA Antibody (C-term) Blocking Peptide - References

Nohra, R., et al. Genes Immun. 11(4):279-293(2010) Severyn, C.J., et al. Biochem. J. 422(3):393-403(2009) Li, V.S., et al. Gastroenterology 137(1):176-187(2009) Endo, M., et al. J. Neurosci. 29(20):6649-6662(2009) Hata, K., et al. J. Cell Biol. 184(5):737-750(2009)