

## RGMA Antibody FITC Conjugated

Catalog No: #C01233F

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## Description

Product Name	RGMA Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	ICC,IF
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide aa 340-390 450 derived from human Repulsive Guidance Molecule A
Conjugates	FITC
Target Name	RGMA
Other Names	RGM; Repulsive guidance molecule A; RGM domain family member A; RGMA
Accession No.	Swiss-Prot#Q96B86NCBI Gene ID56963
Uniprot	Q96B86
GeneID	56963;
Excitation Emission	494nm 518nm
Cell Localization	Cell membrane
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

## Application Details

ICC=1:50-200 IF=1:50-200

## Background

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.

**Note:** This product is for in vitro research use only