

# RGMA Antibody HRP Conjugated

Catalog No: #C01233H

Package Size: #C01233H 100ul

## Description

|                       |                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------|
| Product Name          | RGMA Antibody HRP Conjugated                                                                     |
| Host Species          | Rabbit                                                                                           |
| Clonality             | Polyclonal                                                                                       |
| Isotype               | IgG                                                                                              |
| Purification          | Purified by Protein A.                                                                           |
| Applications          | WB,,IHC-P,IHC-F,ICC                                                                              |
| Species Reactivity    | Hu Ms Rt                                                                                         |
| Immunogen Description | KLH conjugated synthetic peptide aa 340-390 450 derived from human Repulsive Guidance Molecule A |
| Conjugates            | HRP                                                                                              |
| Target Name           | RGMA                                                                                             |
| Other Names           | RGM; Repulsive guidance molecule A; RGM domain family member A; RGMA                             |
| Accession No.         | Swiss-Prot#Q96B86NCBI Gene ID56963                                                               |
| 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

WB=1:500-2000 IHC-P=1:50-200 IHC-F=1:50-200 ICC=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 and is not intended for use in humans or animals.