

Code No. 10377

Anti-Human RGMa (410-10) Mouse IgG MoAb

Volume : 100 µg

Introduction	:	RGMa (Repulsive Guidance Molecule a) is a GIP-anchored protein, about 33 kDa, and it is implicated in axonal guidance and neural tube closure of embryonic retina (ref. 1, 2, 3). It has reported as a potent inhibitor of axonal regeneration in the adult central nervous system (CNS). It is speculated that RGMa inhibits neurite outgrowth by activating the RhoA-Rho kinase signaling pathway <i>in vitro</i> . While, it has reported that, in a rat SCI (spinal cord injury) model, neurite outgrowth is enhanced by administration of anti-RGMa antibody to lesion site, resulting they are improved in mortor functional recovery (ref. 4). Thus function analysis of RGMa is attracting attention in a research field of axonal regeneration of CNS. This antibody detects human RGMa and can be used for western blotting, immuno-precipitation and FACS analysis.
Antigen	:	Synthetic peptide of a part of Human RGMa (LYERTRDLPGRAAAGL)
Source	:	Mouse-Mouse hybridoma (X63 - Ag 8.653 × BALB/c mouse spleen cells, supernatant)
Clone	:	410-10 Subclass : IgG _{2b}
Purification	:	Affinity purified with Protein A
Form	:	Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN_3
How to use	:	1.0 mL deionized water will be added to the product, then its concentration comes to 100 $\mu\text{g}/\text{mL}$
Stability		Lyophilized product, 5 years at 2 - 8 °C Solution, 2 years at –20 °C
Application	:	This antibody can be used for western blotting in concentration of $0.5 - 2 \mu g$ /mL. This antibody can be used for immuno-precipitation in concentration of $1 - 3 \mu g$ /test This antibody can be used for FACS analysis at 0.05 - 0.5 μg (per 1×10 ⁵ cells).
Reference	:	 Mueller BK, Yamashita T, Schaffar G, Mueller R. The role of repulsive guidance molecules in the embryonic and adult vertebrate central nervous system. Philos Trans R Soc Lond B Biol Sci. 2006 Sep 29;361(1473):1513-29. Schwab JM, Conrad S, Monnier PP, Julien S, Mueller BK, Schluesener HJ. Spinal cord injury-induced lesional expression of the repulsive guidance molecule (RGM).Eur J Neurosci. 2005 Mar;21(6):1569-76. Yamashita T, Mueller BK, Hata K. Neogenin and repulsive guidance molecule signaling in the central nervous system.Curr Opin Neurobiol. 2007 Feb;17(1):29-34. Hata K, Fujitani M, Yasuda Y, Doya H, Saito T, Yamagishi S, Mueller BK, Yamashita T. RGMa inhibition promotes axonal growth and recovery after spinal cord injury.J Cell Biol. 2006 Apr 10;173(1):47-58.

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