RGMa Anti-Rat Rabbit IgG Affinity Purify

Polyclonal Antibody

Cat.NO.: PA01326

3th Edition

Description: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 in vitro. 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 rat RGMa and can be used for western blotting, immuno-precipitation and FACS analysis. And it is also reported that administration of the antibody to cerebellar granule cells of 6 - 8 days-old rat, in vitro, neutralizes RGMa-dependent inhibition of neurite outgrowth (ref. 4).

Antigen: Synthetic peptide of a part of Rat RGMa (DFQAFRANAESPRR)

Form: Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN3

How to use:1.0 ml distilled water will be added to the product

Stability: Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

Dilution:PBS (pH7.4) containing 1% BSA

Application: This antibody can be used for western blotting in concentration of 1?5?g/ml.

Specificity: Reacts with rat RGMa (confirmed by western blotting with transfectant).