

PRODUCT DATA SHEET

Anti-ganglioside asialo GM₂

Catalog No: 1951

Common Name: Polyclonal antibody to asialo GM₂, isotype IgG/IgM

Host: Rabbit

Preparation: Purified anti-ganglioside asialo GM₂ and complete Freund's adjuvant was used to immunize rabbits. Serum containing IgG/IgM was isolated¹

Limit of Detection: Optimal ELISA ca. 50ng of antigen

Quality Control: ELISA and TLC immunoblotting with peroxidase reaction²

Selectivity: No cross-reaction with other carbohydrate epitopes

Storage: -20°C

Stability: 3-4 months when refrigerated; 2-3 days at room temperature

Dilution: Phosphate buffered saline (pH 7.4) is recommended

Preservatives: None

Application Notes:

Anti-ganglioside asialo GM₂ is very useful in the identification of ganglioside asialo GM₂ and in immunotargeting cells expressing asialo GM₂. Several gangliosides have been found to have an elevated expression in tumor cells. Many therapeutic treatments of tumor cells are being investigated using antibodies to target cells that express these elevated levels of gangliosides. Lymphoma has been shown to have an increased level of asialo GM₂ and passive immunization with monoclonal immunoglobulin G3 antibodies to asialo GM₂ has effectively suppressed tumor formation in these cells.³ Asialo-GM₂ has been identified as a receptor for many types of bacteria including *Neisseria gonorrhoeae* and *Haemophilus influenzae*.

Selected References:

1. H. Yoshino et al. "Fucosyl-GM1 in Human Sensory Nervous Tissue Is a Target Antigen in Patients with Autoimmune Neuropathies" *Journal of Neurochemistry*, Vol. 61 pp. 658, 1993
2. S. Kusunoki et al. "Neuropathy and IgM paraproteinemia: Differential binding of IgM M-proteins to peripheral nerve glycolipids" *Neurology*, Vol. 37 pp. 1795, 1987
3. W. Young Jr and S. Hakomori "Therapy of mouse lymphoma with monoclonal antibodies to glycolipid: selection of low antigenic variants in vivo" *Science*, Vol. 211:4481 pp. 487-489, 1981

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