SANTA CRUZ BIOTECHNOLOGY, INC.

IgG_{2b} (MRG2b-85): sc-53741

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

IgG is a monomeric immunoglobulin composed of two heavy chains and two light chains. There are 4 subclasses of IgG: IgG_1, IgG_2, IgG_3 and IgG_4. Each molecule has two antigen binding sites. IgG is the most abundant immunoglobulin as well as the only isotype that can pass through the placenta, thereby providing protection to the fetus in its first weeks of life before its own immune system has developed. IgG can bind to several different kinds of pathogens, for example viruses, bacteria and fungi and it protects the body against them by complement activation (the classic pathway), opsonization for phagocytosis and neutralization of their toxins.

REFERENCES

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4. Sakano, H., Maki, R., Kurosawa, Y., Roeder, W. and Tonegawa, S. 1980. Two types of somatic recombination are necessary for the generation of complete immunoglobulin heavy-chain genes. Nature 286: 676-683.
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7. Nair, N., Gans, H., Lew-Yasukawa, L., Long-Wagar, A.C., Arvin, A. and Griffin, D.E. 2007. Age-dependent differences in IgG isotype and avidity induced by measles vaccine received during the first year of life. J. Infect. Dis. 196: 1339-1345.
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SOURCE

IgG_{2b} (MRG2b-85) is a mouse monoclonal antibody raised against mixed immunoglobulins of rat origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

IgG_{2b} (MRG2b-85) is recommended for detection of IgG_{2b} of mouse and rat origin by flow cytometry (1 µg per 1 x 10^6 cells).

SELECT PRODUCT CITATIONS

1. Haobam, B., et al. 2014. Rab17-mediated recycling endosomes contribute to autophagosome formation in response to Group A *Streptococcus* invasion. Cell. Microbiol. 16: 1806-1821.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.