

IgG₃ (LO-MG3): sc-69818

BACKGROUND

IgG is a monomeric immunoglobulin composed of two heavy chains and two light chains. There are four subclasses of the IgG: IgG₁, IgG₂, IgG₃ and IgG₄. 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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CHROMOSOMAL LOCATION

Genetic locus: Ighg3 (mouse) mapping to 12 F2.

SOURCE

IgG₃ (LO-MG3) is a rat monoclonal antibody raised against IgG₃ of mouse origin.

RESEARCH USE

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

PRODUCT

Each vial contains 100 μ g IgM in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

IgG₃ (LO-MG3) is available conjugated phycoerythrin (sc-69818 PE, 100 tests in 2 ml), for WB (RGB), IF, IHC(P) and FCM.

APPLICATIONS

IgG₃ (LO-MG3) is recommended for detection of IgG₃ heavy chain of mouse origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1 x 10⁶ cells).

Molecular Weight of IgG₃: 36 kDa.

STORAGE

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

PROTOCOLS

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