# IgG<sub>1</sub> (RMG1-1): sc-53757



The Power to Question

### **BACKGROUND**

 $\lg G$  is a monomeric immunoglobulin composed of two heavy chains and two light chains. There are four subclasses of  $\lg G$ :  $\lg G_1$ ,  $\lg G_2$ ,  $\lg G_3$  and  $\lg G_4$ . Each molecule has two antigen binding sites.  $\lg G$  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.  $\lg G$  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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## **STORAGE**

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

# **RESEARCH USE**

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

## **PROTOCOLS**

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

### **SOURCE**

 $\lg G_1$  (RMG1-1) is a rat monoclonal antibody raised against  $\lg Gs$  and  $\lg M$ ,  $\lg E$ ,  $\lg A$  cocktail of mouse origin.

# **PRODUCT**

Each vial contains 200  $\mu g$   $lgG_1$  in 1.0 mL PBS with < 0.1% sodium azide and 0.1% gelatin.

### **APPLICATIONS**

 $lgG_1$  (RMG1-1) is recommended for detection of  $lgG_1$  of mouse origin by flow cytometry (1  $\mu g$  per 1 x  $10^6$  cells); non cross-reactive with other isotypes.

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