

Monoclonal Antibody to Rat IgG1 (gamma 1 chain specific) - FITC

Alternate names:	Rat Immunoglobulin G1
Catalog No.:	AM08090FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	<p>Immunoglobulin G (IgG), is one of the most abundant proteins in human serum with normal levels between 8-17 mg/ml in adult blood. IgG is important for our defence against microorganisms and the molecules are produced by B lymphocytes as a part of our adaptive immune response. The IgG molecule has two separate functions; to bind to the pathogen that elicited the response and to recruit other cells and molecules to destroy the antigen. The variability of the IgG pool is generated by somatic recombination and the number of specificities in an individual at a given time point is estimated to be 10e11 variants.</p> <p>Immunoglobulins, or antibodies, are a complex, heterogeneous mixture of proteins that exhibit two fundamental types of structural variation. Subtle structural differences in their antigen combining sites, or variable regions, account for their unique antigen binding specificities.</p>
Host / Isotype:	Mouse / IgG1
Clone:	G17E7
Format:	<p>State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1</p>
Applications:	<p>Flow Cytometry: < / = 0.3 µg/10e6 cells. Immunofluorescence Microscopy: Identification and enumeration of IgG1+ cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody reacts with the gamma-1 heavy chain (Fc) of rat IgG1. It may also react with other species. Species: Rat. Other species not tested.</p>
Storage:	<p>Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.</p>

Pictures:

Immunofluorescent Staining: BALB/c splenocytes were incubated with Rat IgG1 Isotype Control, Rat anti-Mouse CD22 (2D6, Rat IgG1), Rat anti-Mouse CD8 (53-6.7, Rat IgG2a), Rat anti-Mouse CD45 (LCA) (I3/2.3, Rat IgG2b), Rat anti-Mouse CD24 (30-F1, Rat IgG2c), and Rat anti-Mouse CD45RC (GL24, Rat IgM). After washing, the cells were stained with FITC-labeled Mouse Anti-Rat IgG1. Small lymphocytes were gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: $\leq 0.3 \mu\text{g}/10^6$ cells.

