# Data Sheet (Cat.No.TMAY-02806)

## Anti-IgG1 F(ab)2 Antibody (5N962)

### Product Details

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| Ig Type: | Mouse IgG1 |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 5N962 |
| Purification: | Protein A |

### Applications

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| Verified Activity: | Recognize the Human IgG1 full-length antibody and F(ab)2 in ELISA, don't recognize the Human IgG2, Human IgG4, and Human IgG Fc region.<br>-Capture Antibody: Anti-Human IgG1 F(ab)2 Antibody, Mouse MAb, 2 μg/mL.<br>-Sample: Human IgG1,2,4 full-length antibody, F(ab)2, Fc, 0.1 μg/mL.<br>-Detection Antibody: Rabbit anti-Human Kappa Light Chain Secondary Antibody (HRP), Rabbit MAb, 0.5 μg/mL. |
| Application: | ELISA |
| Recommended | ELISA: 0.5-2 μg/mL |

### Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free. |
| Shipping: | Shipping with blue ice. |

### Antigen Details

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| Immunogen: | 0 |
| Antigen Species: | Human |

### Research Background

As a monomeric immunoglobulin that is predominately involved in the secondary antibody response and the only isotype that can pass through the human placenta, Immunoglobulin G (IgG) is synthesized and secreted by plasma B cells, and constitutes 75% of serum immunoglobulins in humans. IgG antibodies protect the body against the pathogens by agglutination and immobilization, complement activation, toxin neutralization, as well as antibody-dependent cell-mediated cytotoxicity (ADCC). IgG tetramer contains two heavy chains (5 kDa ) and two light chains (25 kDa) linked by disulfide bonds, that is the two identical halves form the Y-like shape. IgG is digested by pepsin proteolysis into Fab fragment (antigen-binding fragment) and Fc fragment ("crystallizable" fragment). IgG1 is most abundant in serum among the four IgG subclasses (IgG1, 2, 3 and 4) and binds to Fc receptors (FcγR ) on phagocytic cells with high affinity. Fc fragment is demonstrated to mediate phagocytosis, trigger inflammation, and target Ig to particular tissues. Protein G or Protein A on the surface of certain Staphylococcal and Streptococcal strains specifically binds with the Fc region of IgGs, and has numerous applications in biotechnology as a reagent for affinity purification. Recombinant IgG Fc Region is suggested to represent a potential anti-inflammatory drug for treatment of human autoimmune diseases.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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