

Product Data:**Product SKU:** RPES0971**Size:** 10µg**Species:** Human**Expression host:** Human Cells**Uniprot:** P01857**Protein Information:****Molecular Mass:** 41.6 kDa**AP Molecular Mass:** 32 kDa**Tag:****Bio-activity:** Immobilized Human IgG1 Fc at 2µg/ml(100 µl/well) can bind Human CD64-His(Cat: PKSH033655). The ED50 of Human IgG1 Fc is 47.99 ng/ml .**Purity:** > 95 % as determined by reducing SDS-PAGE.**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.**Reconstitution:** Please refer to the printed manual for detailed information.**Application:** Functional ELISA**Synonyms:** g gamma chain C region;IGHG1

Immunogen Information:

Sequence: Asp104-Lys330

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 the antibody-dependent cell-mediated cytotoxicity (ADCC). IgG tetramer contains two heavy chains (50 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.