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Product Datasheet

Biotinylated Human IgG1 Fc
EBT-EPT286

Article Name	Biotinylated Human IgG1 Fc
Biozol Catalog Number	EBT-EPT286
Supplier Catalog Number	EPT286
Alternative Catalog Number	EBT-EPT286-20
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Biotinylated Recombinant Human Immunoglobulin G1 Fc is produced by our Mammalian expression system and the target gene encoding Asp104-Lys330(Asp239Glu,Leu241Glu) is expressed with a Avi tag at the C-terminus....
Molecular Weight	Molecular weight: 27.7 KDa. Apparent molecular weight: 33 KDa, reducing conditions
UniProt	P01857
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes	Redissolve: Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.. Endotoxin: Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test. 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 (FcgammaR) on phagocytic cells with high affinity.