

# Native Human Immunoglobulin Heavy Constant Gamma 1 (G1m marker)

**Cat. No.** IGHG1-617H    **Lot. No.** (See product label)

## SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Native human IGHG1 was expressed in Human Plasma. Purified from normal serum by immobilized Protein A. IgG is the most abundant immunoglobulin in plasma, found at a concentration of 8 to 18 mg/ml.                                                                                                                                                                      |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>            | Human Plasma                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>       | Ig gamma-1 chain C region is a protein that in humans is encoded by the IGHG1 gene. IgG binds to bacteria and these complexes adhere to phagocytic cells which have surface receptors specific for IgG. Prepared from plasma shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests. >95 percent pure by SDS-PAGE. |
| <b>Form</b>              | Liquid in 0.02M Sodium Phosphate + 0.15M NaCl, pH 7.2.                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>            | IgG fraction                                                                                                                                                                                                                                                                                                                                                              |
| <b>Concentration</b>     | 10 mg/ml                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Weight</b>  | 160kDa                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Application Notes</b> | The optimal concentration should be determined by the user for each specific application.                                                                                                                                                                                                                                                                                 |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | When stored at -80°C, product is stable for 3 years from date of delivery.                                                                                                                                    |
| <b>OfficialSymbol</b>      | IGHG1                                                                                                                                                                                                         |
| <b>Pathways</b>            | Classical antibody-mediated complement activation; Complement cascade; Creation of C4 and C2 activators; IL4-mediated signaling events; Immune System; Initial triggering of complement; Innate Immune System |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                               |
| <b>Gene Name</b>           | IGHG1 immunoglobulin heavy constant gamma 1 (G1m marker) [ Homo sapiens ]                                                                                                                                     |
| <b>Synonyms</b>            | IGHG1; immunoglobulin heavy constant gamma 1 (G1m marker); Ig gamma-1 chain C region                                                                                                                          |
| <b>Gene ID</b>             | 3500                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NG_001019                                                                                                                                                                                                     |
| <b>MIM</b>                 | 147100                                                                                                                                                                                                        |
| <b>UniProt ID</b>          | P01857                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 14q32.32-q32.33                                                                                                                                                                                               |
| <b>Function</b>            | antigen binding; protein binding                                                                                                                                                                              |

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