



## Human IgG1

Catalog: IG001

Host: Human

Reactivity: native

### BackGround:

Native IgG1 from healthy human plasma. Purified from plasma of patients with healthy human producing IgG1 with kappa light chains.

IgG is a monomeric immunoglobulin, built of two heavy chains gamma and two light chains. Each molecule has two antigen binding sites. This is the most abundant immunoglobulin and is approximately equally distributed in blood and in tissue liquids, constituting 75% of serum immunoglobulins in humans. This is the only isotype that can pass through the human placenta, thereby providing protection to the fetus in its first weeks of life before its own immune system has developed. It can bind to many kinds of pathogens, for example viruses, bacteria, and fungi, and protects the body against them by complement activation (classic pathway), opsonization for phagocytosis and neutralisation of their toxins. There are 4 subclasses: IgG1 (66%), IgG2 (23%), IgG3 (7%) and IgG4 (4%).

### Product:

PBS, pH7.4

### Size:

100ug/1mg

### Swiss-Prot:

P01857

### Purification&Purity:

The antibody was affinity-purified from healthy human by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

Immunogen

SDS-PAGE

### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Protein length:

Full length protein

### DATA:

Single arc by immunoelectrophoresis against antiserum to whole human sera and human  $\kappa$  free and bound light chain. Note: Variables associated with assay conditions will dictate the proper working dilution.

### Note:

For research use only, not for use in diagnostic procedure.

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