

## Immunoglobulin G3 (IgG3), Human Myeloma Plasma Isotype Control and Conjugates

□ <b>Cat#</b> 20007-G3-1	Human IgG3, Unlabeled	<b>Size:</b> 1 mg
□ <b>Cat#</b> 20007-G3-B	Human IgG3-Biotin Conjugate	<b>Size:</b> 100 ug
□ <b>Cat#</b> 20007-G3-F	Human IgG3-FITC Conjugate	<b>Size:</b> 100 ug
□ <b>Cat#</b> 20007-G3-H	Human IgG3-HRP Conjugate	<b>Size:</b> 100 ug



**IgG3**

Immunoglobulins belong to a large group of related glyco-proteins that make up approximately 20% of the serum proteins. IgG is further subdivided into 4 subclasses (IgG1, IgG2, IgG3, IgG4) with ~95% homology. Human IgG3 was purified using proprietary chromatographic and immunological techniques. It showed single arc by immunoelectrophoresis against antisera to whole human serum,

IgG3, human lamda with no reactivity with other human serum protein's antibodies. It is >95% SDS-PAGE. The heavy chain of myeloma may appear as a single arc or double band on gel. Indirect ELISA, using subtype specific antisera, also indicates IgG3 subclass.

Human IgG3 is prepared from human plasma and is negative for HIV, HCV, and HbSAg. Nevertheless, all precautions should be taken and samples be treated as potentially hazardous.

### Cat# 20007-G3-1, unlabeled

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (1 mg) or **liquid** form (see lot sp. conc. on the vial). Reconstitute powder in water. Store at -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

### Cat# 20007-G3-B, Biotin-conjugate

Purified antibody was coupled to Biotin using Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC) at F/P ratio ~10-20:1. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** or **liquid** form (see lot sp. conc. on the vial). Reconstitute powder in water in to prepare stock solution. Store at -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,000-1:30,000 ELISA, 1:2K-1:10K for western.

### Cat# 20007-G3-F, FITC-conjugate

Purified antibody was coupled to FITC at F/P ratio ~5. The antibody is supplied in PBS, pH 7.4, 1% BSA (see lot sp conc. on the vial) or in powder form. **Reconstitute** powder in water. Store at -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze/thaw.

Suggested conjugate dilutions are 1:20-1:500 for immunofluorescence. Or 1 test equivalent of antibody per million cells.

**Absorption @495 nm      Emission @528 nm**

### Cat# 20007-G3-H, HRP-conjugate

Purified antibody was coupled to HRP (RZ>3.0) using periodate method. The molar enzyme to protein (E/P) ratio = 4.0. The antibody is supplied in stabilizing buffer, 0.1% prolcin-300 as preservative in either **lyophilized** or **liquid** form (see lot sp. conc. on the vial). Reconstitute powder in PBS. Store at 4°C. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:1,000-1:10,000 ELISA, 1:1K-1:5K for western, and 1:200-1:1000 (IHC).

### Suggested Uses

This preparation IgG is suitable for ELISA, Western or other assays requiring purified IgG1. is approx. 5 ul test or 1 ug/test. Optimal concentration should be tested and adjusted if necessary.

### Related Material available for ADI

Catalog#	ProdDescription
10123	Anti-Human IgG3 (hinge-region)-HRP conjugate
10123-BT	Anti-Human IgG3 (Hinge-region)-Biotin conjugate
10123-AP	Anti-Human IgG3 (Hinge-region)-Alk Phos. Conjugate
20007-G3-1	Human IgG3, Myeloma Plasma
10123-FITC	Anti-Human IgG3 (Hinge-region)-FITC conjugate
1730	Human IgG3 ELISA, 96 tests, Quantitative
10123-UL	Anti-Human IgG3 (hinge-region) IgG, unlabeled
10123-PE	Anti-Human IgG3 (Hinge-region)-PE (phycoerythrin) conjugate
20007-G3-F	Human IgG3-FITC Conjugate (-ve control)
20007-G3-H	Human IgG3-HRP Conjugate (-ve control)
20007-G3-1P	Human IgG3, Native Plasma
20007-G3-B	Human IgG3-Biotin Conjugate (-ve control)
20007-G3-1	150918SV

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