

Product Data Sheet

Mouse Anti-Human IgG3 (Hinge region) Antibodies and Conjugates

Cat# 10123-UL	Mouse Anti-Human IgG3, unlabeled	Size: 100 ug
Cat# 10123 BT	Mouse Anti-Human IgG3- Biotin conjugate	Size: 500 ul
Cat# 10123 FITC	Mouse Anti-Human IgG3- FITC conjugate	Size: 500 ul
Cat# 10123	Mouse Anti-Human IgG3- HRP conjugate	Size: 0.5 ml
Cat# 10123-AP	Mouse Anti-Human IgG3- AP conjugate	Size: 0.1 ml

Human serum IgG3 (WHO/IUIS Study # HP6047) was used as source of antigen to produce monoclonal antibodies. The resulting antibodies have been extensively purified to remove other contaminating antibodies. This monoclonal antibody (isotype IgG3) is specific for hinge region of IgG3. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography. Purified anti-human IgG3 was labeled with highly purified preparation of calf intestinal alkaline phosphatase, HRP, Biotin or FITC. The product reacts with human IgG3 and no antibody is detected to other serum proteins.

Form and Storage

Cat# 10123-UL, unlabeled

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (100 ug) or **liquid** form (100 ug/100 ul). Reconstitute powder in PBS in 0.1 ml to prepare 1 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Cat# 10123-FITC, FITC-conjugate

Purified anti-human IgG3 antibody was coupled to FITC at F/P ratio ~5. The antibody is supplied in PBS, pH 7.4, 1% BSA, 40% glycerol and 0.05% azide. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:20-1:500 for immunofluorescence.

Absorption Wavelength: 495 nm

Emission Wavelength: 528 nm

Cat# 10123-BT, Biotin-conjugate

Purified anti-human IgG3 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, 1% BSA and 0.05% azide in either **lyophilized** (100 ug) or **liquid** form (0.1 mg/0.5 ml or 0.1 mg/100 ul; see lot sp. cond on the vial). Reconstitute powder in PBS in 0.1 ml to prepare 1 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,00-1:5,000 ELISA.

Cat# 10123, 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% proclin-300 as preservative in , either **lyophilized** (0.5 ml) or **liquid** form (0.25 mg/0.5 ml). Reconstitute powder in PBS in 0.5 ml. Store at 4oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,00-1:5,000 ELISA.

Cat# 10124-AP, AP-conjugate

The conjugate is provided at ~0.5-1 mg/ml as liquid in a stabilizing buffer (50 mM Tris-150 mM NaCl-1 mM MgCl₂, pH 7.5, containing 1% bovine serum albumin, 0.05% sodium azide and 50% glycerol). The product should be **stored at 4°C** and is stable for a minimum of 1 year. Do not store diluted solutions.

Recommended Working Dilution for ELISA

Working dilution for the specific application should be determined by the investigator to obtain the best conditions and prepared immediately before use. Diluted solution should be discarded. This product can be used in immunodiffusion, ELISA, flow cytometry, immunofluorescence or immunolocalization.

In order to achieve the desired specificity, this antibody has been immuoadsorbed to remove any other contaminating antibody. This reduces the antibody titer. It is suggested that that all incubations (including the sample, primary antibody, and conjugate) in ELISA or western blotting be performed on an orbital shaker at RT or if possible at 37oC. This would generally enhance the binding by 2-3 fold over the incubation done at RT without shaking. An increase in incubation time may also be attempted to increase binding of the antibody and conjugates.

References: 1. Jefferis, R et al. (1985) Immunol. Lett. 10, 223-252; 2. Goldbalt, D et al. (1993) J Immunol. Methods. 166, 281-285; 3. Hamilton, R et al (1993) J Immunol. Methods. 158, 107-122

MSDS: This product is considered non-hazardous as defined by OSHA (CFR 1910.1200. Nov 25, 1983). It can be disposed of in the drain.

Related Material available for ADI
Human IgA, IgG, IgM, and IgE ELISA kits
10123 131003A

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