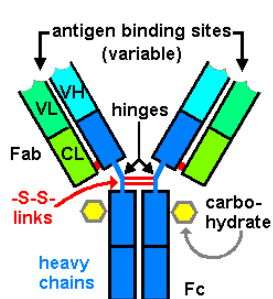


Product Data Sheet

Mouse Anti-Human IgG1 (Fc region) Antibodies and Conjugates

<input type="checkbox"/> Cat#	10121-UL	Mouse Anti-Human IgG1 (Fc-region) aff pure, unlabeled	Size: 100 ug
<input type="checkbox"/> Cat#	10121-BT	Mouse Anti-Human IgG1 (Fc-region)-Biotin conjugate	Size: 0.5 ml
<input type="checkbox"/> Cat#	10121-FITC	Mouse Anti-Human IgG1 (Fc-region)-FITC conjugate	Size: 0.5 ml
<input type="checkbox"/> Cat#	10121-AP	Mouse Anti-Human IgG1 (Fc-region)-AP conjugate	Size: 0.5 ml
<input type="checkbox"/> Cat#	10121-PE	Mouse Anti-Human IgG1 (Fc-region)-PE (phycoerythrin) conjugate	Size: 0.5 ml
<input type="checkbox"/> Cat#	10121	Mouse Anti-Human IgG1 (Fc-region)-HRP conjugate	Size: 0.5 ml



Immunoglobulin G (IgG)

Immunoglobulin G (IgG) is a type of antibody. It is a protein complex composed of four peptide chains—two identical heavy chains and two identical light chains arranged in a Y-shape typical of antibody monomers. IgG has molecular weight of approximately 150 kDa, heavy or H chain approximately 50 kDa and light or L chain 25 kDa. Each IgG has two antigen binding sites. Representing approximately 75% of serum antibodies in humans, IgG is the most common type of antibody found in the circulation.

Human serum IgG1 (WHO/IUIS Study # HP6069) 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 IgG1) is specific for human IgG1. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography. Purified antibody was labeled with highly purified preparation of calf intestinal alkaline phosphatase (AP), HRP (horseradish peroxidase), Biotin or FITC. The product reacts with human IgG1 and no antibody is detected to other serum proteins.

Form and Storage

Cat# 10121-UL, unlabeled

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** or **liquid** form. Reconstitute powder in PBS to prepare stock solution. Store at -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Cat# 10121-FITC, FITC-conjugate

Purified 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 -20°C 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# 10121-BT, 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, 1% BSA and 0.05% azide. Reconstitute powder in water to make stock solution. Store at -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

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

Cat# 10121, 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**. Reconstitute powder in 0.5 ml water to make stock solution. Store at 4°C 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# 10121-AP, AP-conjugate

The conjugate is provided 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.

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

Cat# 10121-PE, PE-conjugate

The purified antibody was coupled to R-Phycoerythrin (R-PE) (Molecular Weight 240,000 daltons) from seaweed using proprietary methods (A565nm/A280nm ~3-4).

Absorption: 490 nm, 545 nm and 565 nm

Emission Wavelength: 580 nm

The conjugate is provided in PBS, pH 7.5, containing 0.1% bovine serum albumin, (BSA) 0.05% sodium azide and stabilizing agent). **DO NOT FREEZE**. The product should be stored at 4°C and is stable for a minimum of 1 year. Do not store diluted solutions.

Recommended usage is ~10 ul/10⁶ cells for Flow cytometry or FACS. Due to many experimental variations, optimum conc must be determined for a given application

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. 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 37°C. 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 (1985) Immunol. Lett. 10, 223-252; Goldbalt, D et al. (1993) J Immunol. Methods. 166, 281-285; Hamilton, R (1993) J Immunol. Methods. 158, 107-122

This product is for in vitro research use only.

Related Material available for ADI

Human IgA, IgG, IgM, and IgE ELISA kits

10121-Anti-Human-IgG1-Conjugate 150512SV

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