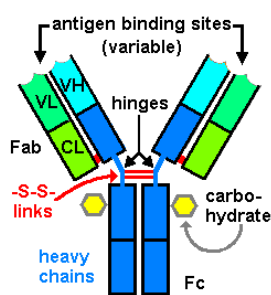


Product Data Sheet

Anti-Human IgG-Antibodies and conjugates

<input type="checkbox"/> Cat# 10119M-UL	Mouse Monoclonal Anti-Human IgG, aff pure, unlabeled	Size: 0.5 mg
<input type="checkbox"/> Cat# 10119M-HP	Mouse Monoclonal Anti-Human IgG-HRP Conjugate	Size: 0.5 ml
<input type="checkbox"/> Cat# 10119M-BTN	Mouse Monoclonal Anti-Human IgG-Biotin 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# 10119M-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 in 1 ml to prepare stock solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Cat# 10119M-HP, 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 **liquid** form.

Store at 4oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:100 for most of the humanized antibodies mentioned above. However, amount of the target antibody may require a different dilution for ELISA or Western.

Cat# 10119M-BTN, Biotin-conjugate

Purified antibody was coupled to Biotin using Biotin-amidocaproate 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 or liquid form. Reconstitute powder in PBS in 1 ml to prepare stock solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:1000-1:5,000 for ELISA or western.

Recommended Working Dilution for ELISA

Working dilution for the specific application should be determined by the investigator to obtain the best conditions. Working solution should be prepared immediately before use and diluted solution should be discarded.

This product is for in vitro research use only.

Related Material available for ADI

Catalog#	Description
10118-UL	Mouse Monoclonal Anti-Human IgG (Fc) IgG, unlabeled
10119M-BTN	Mouse Monoclonal Anti-Human IgG-Biotin Conjugate
10119M-HP	Mouse Monoclonal Anti-Human IgG-HRP Conjugate
10119M-UL	Mouse Monoclonal Anti-Human IgG, aff pure, unlabeled
10121	Mouse Monoclonal Anti-Human IgG1 (Fc-region)-HRP conjugate
10121-24-M	Mouse Monoclonal Anti-Human IgG1+IgG2+IgG3+IgG4-HRP conjugate (formulated for equal reactivity with all 4 IgG isotypes, 100X, Sufficient for 100 ml)
10121-AP	Mouse Monoclonal Anti-Human IgG1 (Fc-region)-AP conjugate
10121-BT	Mouse Monoclonal Anti-Human IgG1 (Fc-region)-Biotin conjugate
10121-FITC	Mouse Monoclonal Anti-Human IgG1 (Fc-region)-FITC conjugate
10121-PE	Mouse Monoclonal Anti-Human IgG1 (Fc-region)-PE (phycoerythrin) conjugate
10121-UL	Mouse Monoclonal Anti-Human IgG1 (Fc-region) aff pure, unlabeled
10122	Mouse Monoclonal Anti-Human IgG2 (Fc-region)-HRP conjugate
10122-AP	Mouse Monoclonal Anti-Human IgG2 (Fc-region)-AP conjugate
10122-BT	Mouse Monoclonal Anti-Human IgG2 (Fc-region)-Biotin conjugate
10122-FITC	Mouse Monoclonal Anti-Human IgG2 (Fc-region)-FITC conjugate
10122-PE	Mouse Monoclonal Anti-Human IgG2 (Fc-region)-PE (phycoerythrin) conjugate
10122-UL	Mouse Monoclonal Anti-Human IgG2 (Fc-region) aff pure, unlabeled
10119M-Ms-mono-anti-human-IgG	161221SV