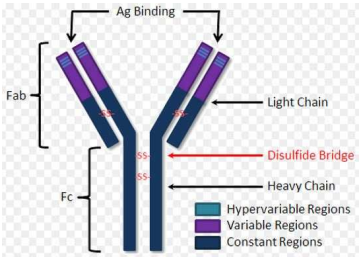
ALPHA DIAGNOSTIC INTERNATIONAL

LIFE TECH Life Technologies™ Your Molecular & Cell Technology Partner

Product Data Sheet

Monoclonal Anti-Rabbit IgG (Light chain) antibodies and conjugates

Cat# 20160-UL	Monoclonal Anti-Rabbit IgG (Light-chain) IgG-Biotin Conj (adsorbed)	**Size**: 0.5 ml
Cat# 20160-HRP	Monoclonal Anti-Rabbit IgG (Light-chain) IgG-HRP Conj (adsorbed)	**Size**: 0.5 ml
Cat# 20160-BT	Monoclonal Anti-Rabbit IgG (Light-chain) IgG (adsorbed)	**Size**: 0.5 ml



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. 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. IgG molecules are created and released by plasma B cells. IgG antibodies are large molecules of about 150 kDa made of four peptide chains. It contains two identical class γ heavy chains of about 50 kDa and two identical light chains of about 25 kDa, thus a tetrameric quaternary structure. The two heavy chains are linked to each other and to a light chain each by disulfide bonds. The resulting tetramer has two identical halves, which together form the Y-like shape. Each end of the fork contains an identical antigen binding site. There are four IgG subclasses (IgG1, 2, 3, and 4) in humans, named in order of their abundance in serum (IgG1 being the most abundant).

Mouse was immunized with antigen grade rabbit IgG (Light chain)-fragment. The antibody was purified from ascites (mouse IgG1k). Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography. The antibodies were further adsorbed with bovine, goat, hamster, horse, human, mouse, rat and sheep Ig's to remove reactivity to these species. The adsorbed anti-rabbit IgG (Light chain) antibody is supplied as unlabeled or conjugated to Biotin, FITC, AP or HRP. Adsorbed antibody reacts with the light chains on rabbit IgG and with those common to other rabbit immunoglobulins. The antibody does not react with the heavy chain of rabbit IgG. Anti-rabbit IgG may cross react with IgG from other species.

Mouse IgG1 isotype negative control

20102-101	Mouse IgG1 isotype control, purified
20102-101-1	Mouse IgG1 isotype control, purified
20102-101-A488	Mouse IgG1-Alexa 488 conjugate (isotype control)
20102-101-A555	Mouse IgG1-Alexa 555 conjugate (isotype control)
20102-101-A647	Mouse IgG1-Alexa 647 conjugate (isotype control)
20102-101-APC	Mouse IgG1-APC conjugate (isotype control)
20102-101-B	Mouse IgG1-Biotin conjugate (isotype control)
20102-101-F	Mouse IgG1-FITC conjugate (isotype control)
20102-101-FP	Mouse IgG1-FITC-PE conjugate (isotype control)
20102-101-HP	Mouse IgG1-HRP conjugate (isotype control)
20102-101-PC5	Mouse IgG1-PE-Cy5 conjugate (isotype control)
20102-101-PE	Mouse IgG1-PE conjugate (isotype control)

Secondary Antibodies

40119	Anti-Mouse IgG (heavy-chain sp.) unlabeled
40120	Anti-Mouse IgG (heavy-chain sp.)-HRP conjugate
40121	Anti-Mouse IgG1 (heavy-chain sp.) aff pure, unlabeled
40121-BT	Anti-Mouse IgG1 (heavy-chain sp.)-biotin labeled
40121-F	Anti-Mouse IgG1 (heavy-chain sp.)-FITC conjugate
40121-U	Anti-Mouse IgG1, unlabeled

Cat# 20160-UL, unlabeled

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** or **liquid** form. Reconstitute powder in water in to prepare stock solution. Store at 4oC for short term or store frozen in in aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Cat# 20160-HRP, 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 PBS, pH 7.4, in a stabilizing buffer, and 0.1% prolcin-300 as preservative. Store at 4oC. Stability is ~6-12 months. Do not freeze and thaw.

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

Cat# 20160-BT, Biotin-conjugate

Purified anti-rabbit IgG (Light chain) 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. Reconstitute powder in water to prepare stock solution. Store at 4oC or store frozen at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,000-1:30,000 ELISA, 1:2000-1:10,000 for 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.

Related Material available for ADI

Rabbit IgG, IgM, IgA ELISA kits

20119	Anti-Rabbit IgG (Fc-region) unlabeled, aff pure
20120	Anti-Rabbit IgG (Fc-region)-HRP conjugate
20130	Anti-Rabbit IgG (Fc-region)-FITC conjugate
20140	Anti-Rabbit IgG (Fc-region)-Biotin conjugate
20150	Anti-Rabbit IgG (Fc-region)-AP conjugate
20160-BT	Monoclonal Anti-Rabbit IgG (Light-chain) IgG-Biotin Conj (adsorbed, for immunoprecipitation/WB
20160-HRP	Monoclonal Anti-Rabbit IgG (Light-chain) IgG-HRP Conj (adsorbed, for immunoprecipitation/WB
20160-UL	Monoclonal Anti-Rabbit IgG (Light-chain) IgG (adsorbed, for immunoprecipitation/WB
20236-01	Anti-Rabbit IgG (H+L)-Agarose affinity matrix (5-10 mg aff pure antibody/ml gel)
20236-05	Anti-Rabbit IgG (H+L)-Agarose affinity matrix (5-10 mg aff pure antibody/ml gel)

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