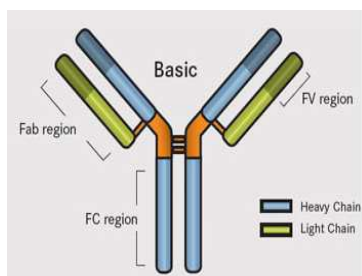


Product Data Sheet

Human IgG F(ab')₂ fragment, purified and Conjugates

Cat#	20007-1-FAB2	Human IgG Fab2 fragment, purified	Size: □ 1 mg
Cat#	20007-1-FAB2-B	Human IgG Fab2 fragment-Biotin Conjugate, purified	Size: □ 100ug
Cat#	20007-1-FAB2-F	Human IgG Fab2 fragment-FITC Conjugate, purified	Size: □ 100ug
Cat#	20007-1-FAB2-HP	Human IgG Fab2 fragment-HRP Conjugate, purified	Size: □ 100ug



Fab is the antigen binding region on an antibody. It consists of heavy chain and a light chain. It is generated by mild reduction of F(ab')₂. F(ab')₂ fragments of antibodies are generated by pepsin digestion of whole IgG antibodies to

remove a portion of the Fc region while leaving intact some of the hinge region. F(ab')₂ fragments have two antigen-binding Fab portions linked together by disulfide bonds, and therefore are divalent. The average molecular weight of Fab is about 55kDa. They are used for specific applications, such as to avoid binding of antibodies to Fc receptors on cell surfaces or binding to Protein A or Protein G.

Description

A healthy non-immunized population of normal Human was used to collect serum. This product was prepared from normal serum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by papain digestion and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Human Serum, anti-Human IgG and anti-Human IgG F(ab')₂. No reaction was observed against anti-Human IgG F(c) or anti- Papain.

Form and Storage

Cat# 20007-1-FAB2, unlabeled

The IgG- F(ab')₂ is provided as liquid (1 mg/ml in PBS pH 7.4) or in lyophilized form. The product should be **stored at 4°C** for short term and -20°C for long-term storage. It is stable for a minimum of 1 year. Do not store diluted solutions.

This preparation of IgG- F(ab')₂ is suitable for coating the ELISA plates or as a non-immune control for ELISA, dot blot, Western or IHC. Recommended testing conc. is approx. 1-10 ug/ml. It is, however, possible that this preparation may be unsuitable for some antigens or cell/tissue extracts and may give slightly higher background. Switching to another preparation from different mouse or vendor may alleviate this problem.

Cat# 20007-1-FAB2-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. Reconstitute powder in PBS to prepare stock solution. Store at 4°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:1,000-1:10,000 ELISA, 1:10000-1:2000 for western.

Cat# 20007-1-FAB2-HP, HRP-conjugate

The antibody is supplied in PBS, pH 7.4, and 0.01% Proclin-300 in liquid or lyophilized in the same buffer. Reconstitute powder in PBS in to prepare stock solution. Store at 4°C. Stability is ~6-12 months. Do not freeze and thaw.

Recommended Working Dilution for ELISA

ELISA: 1:1000-1:10,000

Western: 1:500-1:5000

IHC: 1:100-1:500

Cat# 20007-1-FAB2-F-FITC, FITC-conjugate

Purified anti-human IgG1 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 at 100 ug/100 ul. 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

Catalog#	ProdDescription
1750	Human IgG ELISA Kit, 96 tests, Quantitative
1760	Human IgM ELISA Kit, 96 tests, Quantitative
1780	Human IgA ELISA Kit, 96 tests, Quantitative
1800	Human IgE ELISA Kit, 96 tests, Quantitative
20007-1-FAB2	Human IgG F(ab') ₂ fragment, purified
20007-1-FAB2-B	Human IgG Fab2 fragment-Biotin Conjugate, purified
20007-1-FAB2-F	Human IgG Fab2 fragment-FITC Conjugate, purified
20007-1-FAB2-HP	Human IgG Fab2 fragment-HRP Conjugate, purified
20007-1-FAB-B	Human IgG Fab fragment-Biotin Conjugate, purified
20007-1-FAB-F	Human IgG Fab fragment-FITC Conjugate, purified
20007-1-FAB-HP	Human IgG Fab fragment-HRP Conjugate, purified
20007-1-FC	Human IgG (Fc) fragment, purified
20007-1-Fc-B	Human IgG Fc-Biotin conjugate (isotype control, non-immune), purified
20007-1-Fc-F	Human IgG Fc-FITC conjugate (isotype control, non-immune), purified
20007-1-Fc-HP	Human IgG Fc-HRP conjugate (isotype control, non-immune), purified
20007-1-HP	Human IgG-HRP Conjugate (isotype control)
20007-2	Human IgM, purified (isotype control)
20007-2-10	Human IgM purified (isotype control)
20007-2-MU	Human IgM, mu Chain, Human Plasma, native (isotype control)
20007-1-FAB2-B-HP-F	1510015V

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