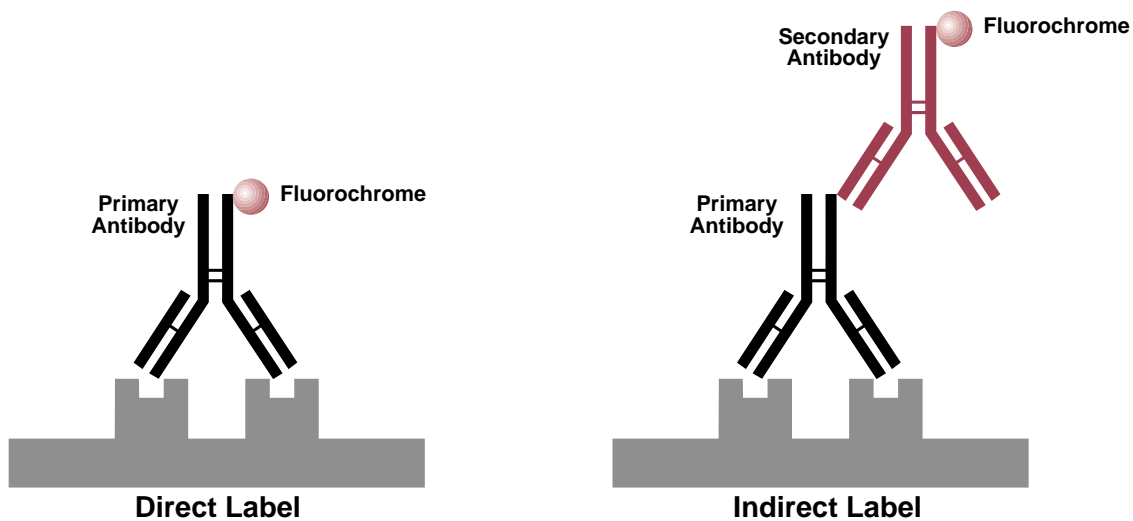


Fluorochrome-Conjugated Antibodies

Fluorochromes absorb energy when exposed to incident light of a particular wavelength, causing excitation of electrons to higher energy levels. Subsequently, some of the excess energy is emitted as light when electrons return to ground level. This principle is applied in the measurement of analytes in immunoassays. Fluorescent antibody conjugates exhibit high specific fluorescence with minimal nonspecific staining. Two fluorochromes, rhodamine and fluorescein, are ideally suited for immunofluorescence assays. Antibodies labeled with rhodamine and fluorescein are useful both in direct and indirect detection methods and have applications in flow cytometry and immunofluorescence microscopy.

The performance of any conjugate in an immunofluorescence assay is largely dependent upon the purity and the concentration of the antibody involved. Antibodies with higher specificities exhibit low nonspecific staining. Suboptimal concentrations of antibody conjugates can lead to poor fluorescence intensity, whereas excessive conjugation can lead to either higher nonspecific binding or self quenching, depending upon the fluorochrome used.

CALBIOCHEM[®] offers you a wide selection of fluorescent-labeled antibodies to immunoglobulins and a large collection of fluorochromes for your research needs. Please call our Technical Services Department or your local sales office for more information on these and other related products.



Rhodamine-Conjugated Affinity-Purified Antibodies to Immunoglobulins

(Excitation max: ~552 nm; Emission max: ~570 nm)

Product	Host	Cat. No.	Product	Host	Cat. No.
Anti-Mouse IgG, H & L Chain Specific	Goat	401217	Anti-Rabbit IgG, H & L Chain Specific	Goat	401332
Anti-Mouse IgG, H & L Chain Specific <i>Adsorbed with bovine, horse, human, and rat proteins.</i>	Goat	401245	Anti-Rat IgG, H & L Chain Specific	Goat	401413
Anti-Rabbit IgG, H & L Chain Specific	Goat	401321	Anti-Sheep IgG, H & L Chain Specific	Rabbit	402105

Fluorescein-Conjugated Affinity-Purified Antibodies to Immunoglobulins

(Excitation max: ~490 nm; Emission max: ~520 nm)

Product	Host	Cat. No.	Product	Host	Cat. No.
Anti-Goat IgG, H & L Chain Specific	Rabbit	401514	Anti-Mouse IgG, H & L Chain Specific	Rabbit	401219
Anti-Human IgA, α -Chain Specific	Goat	401134	Anti-Mouse IgG, H & L Chain Specific, F(ab') ₂ Fragment	Sheep	401209
Anti-Human IgG, γ -Chain Specific	Goat	401444	Anti-Mouse IgM, H & L Chain Specific	Goat	401224
Anti-Human IgG, H & L Chain Specific	Goat	401434	Anti-Rabbit IgG, H & L Chain Specific	Goat	401314
Anti-Human IgM, μ -Chain Specific	Goat	401904	Anti-Rabbit IgG, H & L Chain Specific <i>Adsorbed with bovine, horse, human, and mouse proteins.</i>	Goat	401319
Anti-Mouse IgG, H & L Chain Specific	Goat	401214	Anti-Rabbit IgG, H & L Chain Specific, F(ab') ₂ Fragment	Sheep	401323
Anti-Mouse IgG, H & L Chain Specific <i>Adsorbed with rat proteins.</i>	Goat	401234	Anti-Rat IgG, H & L Chain Specific	Goat	401414
Anti-Mouse IgG, H & L Chain Specific <i>Adsorbed with bovine, horse, human, and rat proteins.</i>	Goat	401244	Anti-Sheep IgG, H & L Chain Specific	Rabbit	402104

TEXAS RED®-Conjugated Affinity-Purified Antibodies to Immunoglobulins

(Excitation max: ~596 nm; Emission max: ~620 nm)

Product	Host	Cat. No.
Anti-Mouse IgG, H & L Chain Specific	Goat	401218
Anti-Mouse IgG, H & L Chain Specific Adsorbed with bovine, horse, and human proteins.	Goat	401230
Anti-Mouse IgG, H & L Chain Specific Adsorbed with bovine, horse, human, and rat proteins.	Goat	401246
Anti-Mouse IgM, μ -Chain Specific	Goat	401296
Anti-Rabbit IgG, H & L Chain Specific	Goat	401355

Phycoerythrin-Conjugated Affinity-Purified Antibodies to Immunoglobulins

(Excitation max: ~565 nm; Emission max: ~575 nm)

Product	Host	Cat. No.
Anti-Mouse IgG, H & L Chain Specific	Goat	401239
Anti-Rabbit IgG, H & L Chain Specific	Goat	401299

FITC Labeling Kit

Provides means to quickly and simply label antibodies or other proteins with fluorescein. Each kit is sufficient to perform at least five conjugations on proteins of 100 μ g to 2.5 mg each. Contains fluorescein (five vials), carbonate buffer concentrate, DMF solvent, PBS buffer concentrate, and instructions.

Cat. No. 343210 1 kit

ChromoSave™ Reagent

An aqueous-based mounting medium designed for the permanent preservation of stained cells and tissue sections. Compatible with fluorescein, rhodamine, and TEXAS RED® stained tissues.

Cat. No. 238540 30 ml

FluorSave™ Reagent

Aqueous mounting medium to preserve fluorescence-stained tissue sections. Suitable for use with fluorescent tracers such as fluorescein, rhodamine, and phycobiliprotein (allophycocyanin, phycocyanin, or phycoerythrin) probes.

Cat. No. 345789 20 ml

Other Fluorochrome-Conjugated Reagents

Product	Cat. No.
Avidin, Fluorescein Conjugate	189727
Biotin-X, Fluorescein Conjugate	343222
Anti-Biotin (Goat), Fluorescein Conjugate	203204
Protein A, Fluorescein Conjugate	539259
Protein G, Fluorescein Conjugate	539326
Streptavidin, Fluorescein Conjugate	189734
Streptavidin, Phycoerythrin Conjugate	189737
Streptavidin, TEXAS RED® Conjugate	189738

Fluorochromes

Product	Cat. No.
Allophycocyanin, <i>Anabaena variabilis</i>	526240
DTAF, Dihydrochloride (Dichlorotriazinylaminofluorescein)	287900
FITC, Isomer I (Fluorescein isothiocyanate)	34321
FITC on Celite 10%	34323
R-Phycoerythrin, <i>Gastroclonium coulteri</i>	526258
TEXAS RED™ (Sulforhodamine 101 Sulfonylechloride)	573888
TRITC (Tetramethylrhodamine isothiocyanate)	588406

Immunopen™

Designed to minimize the waste of antibody and other important reagents in immunostaining techniques. When applied in a circle around the specimen it forms a hydrophobic barrier, retaining antibody and minimizing waste of valuable reagents. Sufficient for 500 - 800 individual applications.

Cat. No. 402173 1 each



CALBIOCHEM® also offers an extensive collection of enzyme-conjugated antibodies and purified enzymes for your research needs. Please call our Technical Service Department or your local sales office and ask for your free copy of "Enzyme-Conjugated Antibodies."

Please call our Technical Service Department or your local sales office for more information on these products.

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