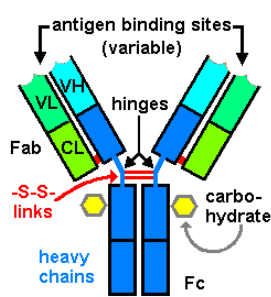


Product Data Sheet

□ # 20102-101-A488

Mouse IgG1-Alexa 488 conjugate (isotype control)

Size: 50 tests



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.

Highly purified preparation of mouse IgG1k is supplied as unlabeled, HRP-, Biotin, FITC, and PE, Cy5 conjugates for use as isotype control or negative control for all mice monoclonal with IgG1 isotype.

The Alexa Fluor family of fluorescent dyes is produced by Molecular Probes, Inc., a wholly owned subsidiary of Life Technologies Corporation. Alexa Fluor dyes are frequently used as cell and tissue labels in fluorescence microscopy and cell biology.

The excitation and emission spectra of the Alexa Fluor series cover the visible spectrum and extend into the infrared. The individual members of the family are numbered according roughly to their excitation maxima (in nm).

Alexa Fluor dyes are synthesized through sulfonation of coumarin, rhodamine, xanthene (such as fluorescein), and cyanine dyes. Sulfonation makes Alexa Fluor dyes negatively charged and hydrophilic. Alexa Fluor dyes are generally more stable, brighter, and less pH-sensitive than common dyes (e.g. fluorescein, rhodamine) of comparable excitation and emission and to some extent the newer cyanine series. However, they are also more expensive. They are patented by Invitrogen.

The Alexa Fluor dyes were named after Alex Haugland, son of Richard and Rosaria Haugland, the founders of Molecular Probes. The Marina Blue dye was named after their daughter Marina.

The Alexa Fluor series dyes are less pH-sensitive and more photostable than the original dyes (fluorescein, rhodamine, etc.) from which they were synthesized.

Form and Storage

Cat# 20102-101-A488

Purified Mouse IgG1 was coupled to Alexa 488 at F/P ratio ~2-8:1. The conjugate is free of unconjugated dye. The conjugate is supplied in PBS, pH 7.4, BSA 0.05% azide and 50% glycerol (see lot specific conc. on vial). Reconstitute powder in PBS in

0.5 ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested applications: Suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays. Use 5ul/test, users must optimize the dilutions for a given technique.

Absorption Wavelength: 495 nm

Emission Wavelength: 519 nm

References: J. Histochem. Cytochem. (1 September 1999):47 (9): 1179–88; J. Histochem. Cytochem. 51 (12): 1699–712

Catalog#	Prod Description
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)
20102-101-A488	160311SV

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