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Product Specification Sheet

Product: IRDye™ 800 Conjugated Protein A Purified Murine Monoclonal Anti-Rhodamine

Code: 200-332-246

Lot # 13065

Size: 0.1 mg

Clone: 11H10

Isotype: IgG₁ Lambda

Physical State: Lyophilized

Antibody Concentration: 1.0 mg/ml (by UV absorbance at 280 nm)

Label: IRDye™ 800 (MW 1166.2)

Fluorochrome/Protein Ratio: 3.0 moles IRDye™ 800/mole of Mouse IgG

Absorption Wavelength: 774 nm (in PBS)

Emission Wavelength: 800 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: 10 mg/ml BSA IgG and Protease free

Preservative: 0.01% (w/v) Sodium Azide

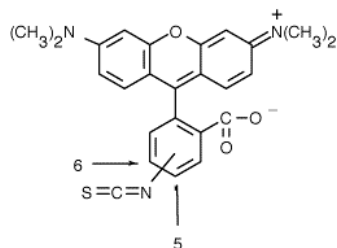
Background Information: Epitope tags are short peptide sequences that are easily recognized by tag-specific antibodies. Due to their small size, epitope tags do not affect the tagged protein's biochemical properties. Most often sequences encoding the epitope tag are included with target DNA at the time of cloning to produce fusion proteins containing the epitope tag sequence. This allows anti-epitope tag antibodies to serve as universal detection reagents for any tag containing protein produced by recombinant means. This means that anti-epitope tag antibodies are a useful alternative to generating specific antibodies to identify, immunoprecipitate or immunoaffinity purify a recombinant protein. The anti-epitope tag antibody is usually functional in a variety of antibody-dependent experimental procedures. Expression vectors producing epitope tag fusion proteins are available for a variety of host expression systems including bacteria, yeast, insect and mammalian cells. Rockland Immunochemicals produces anti-epitope tag antibodies against many common epitope tags including Myc, GST, GFP, 6X His, MBP, FLAG and HA. Rockland Immunochemicals also produces antibodies to other tags including FITC, Rhodamine (TRITC), DNP and biotin.

Application(s): Fluorescence technology is widely used to detect proteins. However, many common visible fluorophores often result in considerable background fluorescence in the visible range. Visible fluorophores are rarely used for membrane-based protein detection because of this high background. IRDye™ 800 antibody and reagent conjugates are specifically designed for protein detection methods that use longer-wavelength, near-infrared (IR) fluorophores to visualize proteins in western blotting and other applications. Very low background fluorescence in the IR range provides for a much higher signal-to-noise ratio than visible fluorophores. Detection levels in the picogram range on Western blots rival the sensitivity of chemiluminescence on film. IRDye™ 800 conjugates are optimized for the Odyssey® Infrared Imaging System developed by LI-COR. IRDye™ 800 conjugates are also suitable for immunofluorescence microscopy using commercially available excitation/emission filters in the 780nm/820nm range. Dual simultaneous labeling in western blots or microscopy is achieved when IRDye™ 800 conjugates are used in conjunction with Cy5.5™ conjugates. IRDye™ 800 conjugates provide an ultra-sensitive and convenient alternative to standard chemiluminescent protein detection methods, as well as a valuable tool for multicolor imaging

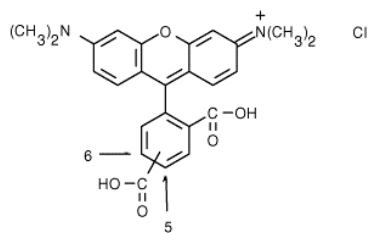
Recommended Dilution(s): This product was tested by immunoblot using antigen spotted to nitrocellulose membrane. A dilution range of 1:10,000 to 1:25,000 is suggested for this product to detect 12-25 pg of immobilized protein. Researchers should determine optimal titers for other applications.

Storage Conditions: Store vial at 4° C prior to restoration. Restore with 0.1 ml of deionized water (or equivalent). Centrifuge product if not completely clear after standing at room temperature. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of restoration.

Purity and Specificity: This protein A purified mouse monoclonal antibody reacts specifically with Rhodamine and its derivatives. Rhodamine isomer 5 and isomer 6 are reactive as TAMRA, as well as TRITC conjugated proteins. No reaction is observed against Texas Red.



tetramethylrhodamine-5-(and-6)-isothiocyanate (5(6)-TRITC)



5-(and-6)-carboxytetramethylrhodamine (5(6)-TAMRA)

Immunogen: This protein A purified monoclonal antibody was produced after repeated immunizations of balb/c mice with rhodamine conjugated KLH.

Hybridoma: Produced by the fusion between mouse splenocytes and mouse myeloma SP2/0 cells using conventional hybridoma technology.

Conjugation Reference: LI-COR Biosciences, Lincoln, NE.

Related Product(s):

#600-101-098	Affinity Purified Anti-BIOTIN (GOAT)
#600-401-382	Affinity Purified Anti-6X HIS TAG (Rabbit)
#600-101-200	Affinity Purified Anti-GST (GOAT)
#600-101-215	Affinity Purified Anti-GFP (GOAT)
#600-101-096	Affinity Purified Anti-FITC (GOAT)
#200-301-246	Protein A Purified Mouse Mab Anti-TRITC
#200-B01-380	Protein A Purified Hamster Mab Anti-DNP
#611-703-127	HRP Anti-Rabbit IgG [H&L] MX10 (DONKEY)
#611-132-122	IRDye800 Anti-Rabbit IgG [H&L] MX10 (GOAT)

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