ROCKLAND
Immunochemicals for Research
800-656-7625
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Certificate of Analysis

Product: IRDye™800 Conjugated Affinity Purified anti-Biotin [Goat]

Code: 600-132-098 **Lot #** 22197

Size: 0.5 mg

Physical State: Lyophilized **Antibody Concentration:** 1.0 mg/ml (by UV absorbance at 280 nm)

Label: IRDye™800 (MW 1067) **Fluorochrome/Protein Ratio:** 2.6 moles IRDye™800 per mole of Goat IgG

Absorption Wavelength: 778 nm **Emission Wavelength**: 806 nm

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

Stabilizer: 10 mg/ml Bovine Serum Albumin (BSA) IgG and Protease free

Preservative: 0.01% (w/v) Sodium Azide

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 rivals 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):

LI-COR Odyssey® BLOT	1:5,000 - 1:25,000
LI-COR In-Cell Western®	1:800 - 1:1,200
OTHER APPLICATIONS	User Optimized

Storage Conditions: Store vial at 4° C prior to restoration. Restore with 0.5 ml of deionized water (or equivalent). For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of restoration.

Purity: This product was prepared from monospecific antiserum by immunoaffinity chromatography using Biotin coupled to sepharose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Biotin conjugated IgG and Biotin conjugated Bovine Serum Albumin.

Immunogen: Biotin conjugated to Keyhole Limpet Hemocyanin (b-KLH)

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