

## Product Specification Sheet

**Product:** IRDye™ 800 Conjugated Affinity Purified anti-Goat IgG [H&L] [Donkey]

**Code:** 605-732-002

**Lot #** 13173

**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:** 3.0 moles IRDye™ 800 per mole of Donkey 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):** This product was tested by immunoblot using Goat IgG spotted to nitrocellulose membrane. A 1:2,500 dilution is sufficient to detect 12-25 pg of immobilized Goat IgG. Researchers should determine optimal titers for other applications.

**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 Goat IgG coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Donkey Serum, Goat IgG and Goat Serum.

**Immunogen:** Goat IgG, whole molecule

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

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