

Product Specification Sheet

Product: Peroxidase Conjugated F(ab')₂ fragment of anti-Swine IgG [H&L] [Rabbit]

Code: 314-4302

Lot # 4092

Size: 20 mg

Physical State: Lyophilized

Antibody Concentration: 10.0 mg/ml (by UV absorbance at 280 nm)

Label: Horseradish Peroxidase (HRP) (Molecular Weight 40,000 daltons)

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) Gentamicin Sulfate

Application(s): suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic assays requiring the absence of F(c) mediated binding and greater antibody permeability.

Recommended Dilution(s): This product has been assayed against 1.0 ug of Swine IgG in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:10,000 to 1:40,000 of the reconstitution concentration is suggested for this product. Optimal titers for other applications should be determined by the researcher.

Storage Conditions: Store vial at 4° C prior to restoration. Restore with 2.0 ml of deionized water (or equivalent). For extended storage reconstitute product with 50% glycerol instead of water and then 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 and Specificity: This product is a F(ab')₂ fragment of an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation, ion exchange chromatography and pepsin digestion followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum, Swine IgG and Swine Serum. No reaction was observed against anti-Rabbit IgG F(c) or anti-Pepsin.

Immunogen: Swine IgG whole molecule

Conjugation Reference: Farr & Nakane, *J. Immunol. Methods* **47**; 129-144. 1981.

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.