

## Datasheet for 701-405-002

## F(ab')<sub>2</sub> Bovine IgG (H&L) Antibody Alkaline Phosphatase Conjugated

### Overview

<b>Description:</b>	Rabbit F(ab') <sub>2</sub> Anti-Bovine IgG (H&L) Antibody Alkaline Phosphatase Conjugated - 701-405-002
<b>Item No.:</b>	701-405-002
<b>Size:</b>	500 µg
<b>Reactivity:</b>	Bovine
<b>Host Species:</b>	Rabbit

### Product Details

<b>Background:</b>	F(ab') <sub>2</sub> Antibody was generated by enzymatic cleavage and subsequent separation from the Fc fragment. Because of their smaller size, F(ab') <sub>2</sub> fragments offer several advantages over intact antibodies for use in certain immunochemical techniques and experimental applications. F(ab') <sub>2</sub> fragments penetrate into tissue samples and show better antigen recognition and signal generation in IHC. F(ab') <sub>2</sub> fragments lack the Fc region and therefore do not bind Fc receptors which effectively lowers background staining. F(ab') <sub>2</sub> Antibody is ideal for investigators who routinely perform flow cytometry, immunohistochemistry or IHC and other immunoassays.
<b>Synonyms:</b>	Rabbit F(ab') <sub>2</sub> Anti-Bovine alkaline phosphatase Conjugated Antibody, Rabbit Fab <sub>2</sub> Anti-Bovine alkaline phosphatase Conjugated Antibody, Rabbit Fab' <sub>2</sub> Anti-Bovine Antibody alk phos Conjugation
<b>Host Species:</b>	Rabbit
<b>Specificity:</b>	IgG (H&L)
<b>Conjugate:</b>	Alkaline Phosphatase (AP)
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG F(ab') <sub>2</sub>

### Target Details

<b>Reactivity:</b>	Bovine
<b>Immunogen:</b>	Bovine IgG whole molecule

**Purity/Specificity:** This product was prepared from monospecific antiserum by immunoaffinity chromatography using Bovine IgG coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities, pepsin digestion and chromatographic separation. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Alkaline Phosphatase, anti-Rabbit Serum, Bovine IgG and Bovine Serum. No reaction was observed against anti-Pepsin or anti-Rabbit IgG F(c).

## Application Details

**Application Note:** This product has been assayed against 1.0 µg of Bovine IgG in a standard capture ELISA using pNPP p-nitrophenyl phosphate code # NPP-10 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:20,000 of the reconstitution concentration is suggested for this product.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:2,000 - 1:10,000

**IHC:** 1:500 - 1:1,000

**WB:** 1:500 - 1:2,000

## Formulation

**Physical State:** Liquid (sterile filtered)

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**Buffer:** 0.05 M Tris Chloride, 0.15M Sodium Chloride, 0.001M Magnesium Chloride, 0.0001M Zinc Chloride, 50% (v/v) Glycerol; pH 8.0

**Preservative:** 0.01% (w/v) Sodium Azide

**Stabilizer:** 10 mg/ml Polyethylene Glycol (PEG-8000)

## Shipping & Handling

**Shipping Condition:** Wet Ice

**Storage Condition:** Store vial at 4° C before opening. DO NOT FREEZE. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Freezing alkaline phosphatase conjugates will result in a substantial loss of enzymatic activity.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Disclaimer

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. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.