

## Datasheet for 613-4304

## Sheep IgG F(ab')<sub>2</sub> Antibody Peroxidase Conjugated

### Overview

<b>Description:</b>	Rabbit Anti-Sheep IgG F(ab') <sub>2</sub> Antibody Peroxidase Conjugated - 613-4304
<b>Item No.:</b>	613-4304
<b>Size:</b>	1.5 mg
<b>Applications:</b>	IHC
<b>Reactivity:</b>	Sheep
<b>Host Species:</b>	Rabbit

### Product Details

<b>Background:</b>	Anti-Sheep IgG F(ab') <sub>2</sub> Antibody generated in rabbit recognizes the dimeric Fab portion of the sheep IgG molecule. Sheep IgG F(ab') <sub>2</sub> is a proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme pepsin under controlled conditions of temperature, time and pH. F(ab') <sub>2</sub> molecules lack the Fc portion of IgG and therefore receptors that bind sheep IgG F(c) will not bind sheep IgG F(ab') <sub>2</sub> molecules. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition. This Anti-Sheep IgG F(ab') <sub>2</sub> is conjugated to Peroxidase.
<b>Synonyms:</b>	Rabbit Anti-Sheep IgG F(ab') <sub>2</sub> peroxidase Conjugated Antibody, Rabbit Anti-Sheep IgG Fab <sub>2</sub> peroxidase Conjugated Antibody, Rabbit Anti-Sheep IgG Fab <sub>2</sub> Fragment Antibody HRP Conjugation
<b>Host Species:</b>	Rabbit
<b>Specificity:</b>	IgG F(ab') <sub>2</sub>
<b>Conjugate:</b>	Peroxidase (HRP)
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

### Target Details

<b>Reactivity:</b>	Sheep
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<b>Immunogen:</b>	Sheep IgG F(ab') <sub>2</sub> fragment
<b>Purity/Specificity:</b>	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Sheep IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum, Sheep IgG, Sheep IgG F(ab') <sub>2</sub> and Sheep Serum. No reaction was observed against Sheep IgG F(c).

## Application Details

<b>Suggested Applications:</b>	IHC (Based on references)
<b>Application Note:</b>	This product has been assayed against 1.0 µg of Sheep IgG in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:5,000 of the reconstitution concentration is suggested for this product.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:10,000 - 1:50,000
<b>IHC:</b>	1:500 - 1:2,500
<b>WB:</b>	1:1,000 - 1:10,000

## Formulation

<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	1.5 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
<b>Stabilizer:</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Reconstitution Volume:</b>	1.0 mL
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

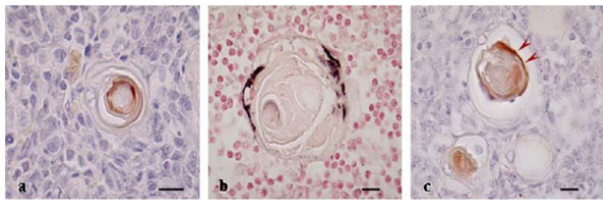
## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
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**Storage Condition:** Store vial at 4° C prior to restoration. 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:** Expiration date is one (1) year from date of receipt.

## Images



### Immunohistochemistry

Immunohistochemistry results using rabbit anti-sheep IgG F (ab')<sub>2</sub> HRP. Antigen retrieval was performed by heating the paraffin sections in an autoclave at 121°C for 15 min. The paraffin sections were then treated with 10% normal sheep serum for staining against anti-human TSLP antibody. After several washes with PBS, the sections were stained with Peroxidase-conjugated affinity-purified anti-sheep IgG F (ab')<sub>2</sub> secondary antibody (p/n 613–4304) for 1.5 h. The samples were treated with 0.3% H<sub>2</sub>O<sub>2</sub> in cold methanol for 30 min. Finally, 0.1 mg/ml 3,3'-diaminobenzidine tetrahydrochloride was applied to sections for 10 min. The sections were counterstained with hematoxylin. (a, b) Immunohistochemical localization of Lag-positive cells in Hassal's corpuscles of the thymus at 5 months (a, brown) and 8 months (b, dark blue) of human ontogeny. (c) Immunohistochemical localization of TSLP-R (brown, arrowheads) in Hassal's corpuscles of the thymus at 5 months of gestation. Bars 10 μm. Fig. 2. PMID: 16670919.

## References

- Savchenko AS et al. Development and maturation of thymic dendritic cells during human ontogeny. *Cell Tissue Res.* (2006)

## 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.