

## Datasheet for 100-1174

# Papain Antibody

### Overview

|                      |                                        |
|----------------------|----------------------------------------|
| <b>Description:</b>  | Anti-Papain (GOAT) Antibody - 100-1174 |
| <b>Item No.:</b>     | 100-1174                               |
| <b>Size:</b>         | 2 mL                                   |
| <b>Reactivity:</b>   | Papaya                                 |
| <b>Host Species:</b> | Goat                                   |

### Product Details

|                      |                                                                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Papain hydrolyzes proteins with broad specificity for peptide bonds, but preference for an amino acid bearing a large hydrophobic side chain at the P2 position. It does not accept Val in P1'. |
| <b>Synonyms:</b>     | goat anti-Papain Antibody, Allergen Car p 1 antibody, Papaya proteinase I antibody, PPI antibody                                                                                                |
| <b>Host Species:</b> | Goat                                                                                                                                                                                            |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                      |
| <b>Format:</b>       | Antiserum                                                                                                                                                                                       |

### Target Details

|                            |                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | PPI                                                                                                                                                                                                                                                                                                                                                                |
| <b>Reactivity:</b>         | Papaya                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen Type:</b>     | Native Protein                                                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen:</b>          | Papain [Carica papaya]                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-goat serum, purified and partially purified Papain [Carica papaya]. Cross reactivity against Papain from other tissues and species may occur but have not been specifically determined. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P00784</a></li><li>• <a href="#">NCBI - P00784.1</a></li></ul>                                                                                                                                                                                                                                     |

## Application Details

|                          |                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Application Note:</b> | Anti-Papain is suitable for ELISA and western blot. Optimization of additional assays should be done by end user. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                   |
| <b>ELISA:</b>            | 1:5,000 - 1:25,000                                                                                                |
| <b>WB:</b>               | 1:500 - 1:3,000                                                                                                   |

## Formulation

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                |
| <b>Concentration:</b>         | 80 mg/mL by Refractometry                                  |
| <b>Buffer:</b>                | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>          | 0.01% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>            | None                                                       |
| <b>Reconstitution Volume:</b> | 2.0 mL                                                     |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)               |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | 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.