

Datasheet for 200-1174**Papain Antibody****Overview**

Description:	Anti-Papain (GOAT) Antibody (BULK ORDER) - 200-1174
Item No.:	200-1174
Size:	50 mg
Applications:	WB
Reactivity:	Papaya
Host Species:	Goat

Product Details

Background:	Papain Antibody detects Papain protein from papaya. Papain belongs to the peptidase C1 family and hydrolyses proteins with broad specificity for peptide bonds. The proteolysis preference of Papain is at amino acids bearing a large hydrophobic side chain at the P2 position and is inhibited when Val is at position P1. Papain may cause allergic reactions in humans. Anti-Papain Antibody is ideal for investigators involved in Cell Signaling and Cell Biology research.
Synonyms:	goat anti-Papain Antibody, Allergen Car p 1 antibody, Papaya proteinase I antibody, PPI antibody
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PPI
Reactivity:	Papaya
Immunogen Type:	Native Protein
Immunogen:	Anti-Papain Antibody was produced by repeated immunizations with pork Papain protein isolated from papaya.

Purity/Specificity: Anti-Papain antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified Papain [Carica papaya]. Cross reactivity against Papain from other sources may occur but has not been specifically determined.

Relevant Links:

- [UniProtKB - P00784](#)
- [NCBI - P00784.1](#)

Application Details

Tested Applications:	WB
Application Note:	Anti-Papain antibody has been tested by western blotting to detect a single band of the expected apparent molecular weight and for ELISA. Researchers should determine optimal titers for applications that are not stated below.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IHC:	1:500 - 1:3,000
WB:	1:1,000 - 1:5,000

Formulation

Physical State:	Lyophilized
Concentration:	10.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	5.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

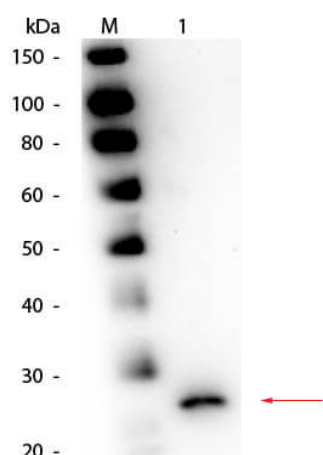
Shipping & Handling

Shipping Condition: Ambient

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



Western Blot

Western Blot of Goat anti-Papain Antibody. Lane 1: Papain. Load: 50 ng per lane. Primary antibody: Goat anti-Papain Antibody at 1:1,000 overnight at 4°C. Secondary antibody: HRP goat secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 23 kDa, 23 kDa for Papain.

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.