

Datasheet for 200-1174-0100**Papain Antibody****Overview**

Description:	Anti-Papain (GOAT) Antibody - 200-1174-0100
Item No.:	200-1174-0100
Size:	100 µg
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:	1.0 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:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

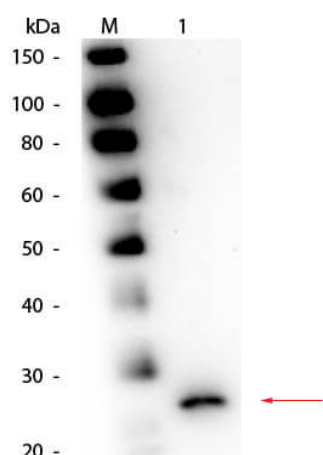
Shipping & Handling

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

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