

Datasheet for ABIN969350

anti-PGA5 antibody**2** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	PGA5
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PGA5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Purified recombinant fragment of human PGA5 expressed in E. coli.
Clone:	2C1
Isotype:	IgG1
Purification:	purified

Target Details

Target:	PGA5
Alternative Name:	PGA5 (PGA5 Products)
Background:	Description: PGA5: Pepsinogen 5, group I (pepsinogen A). Pepsinogens are the inactive precursors of pepsin, the major acid protease found in the stomach. Pepsin is one of the main proteolytic enzymes secreted by the gastric mucosa. Pepsin consists of a single polypeptide chain and arises from its precursor, pepsinogen, by removal of a 41 amino acid segment from

Target Details

the N-terminus. Pepsinogen is synthesized in the stomach lining, and hydrochloric acid, also produced by the gastric mucosa, is necessary to convert the inactive enzyme and to maintain the optimum acidity (pH 1-3) for pepsin function. Pepsin is particularly effective in cleaving peptide bonds involving aromatic amino acids. Pepsin shows extremely broad specificity, although bonds involving phenylalanine and leucine are preferred, many others are also cleaved to some extent. PGA5 is a member of the subfamily A1 within the pepsin family and is the predominant endopeptidase in the gastric juice of vertebrates. PGA5 is inhibited by ovUS-1, a uterine serpin.

Aliases: Pepsinogen 5, Pepsin A

Molecular Weight:	42 kDa
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Gene ID:	5222
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HGNC:	5222
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Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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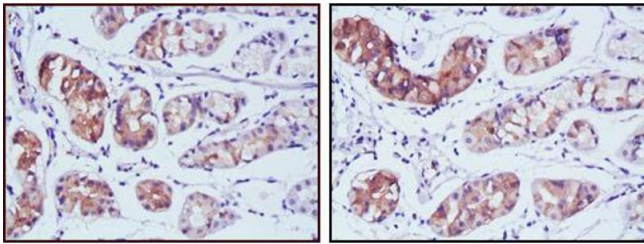
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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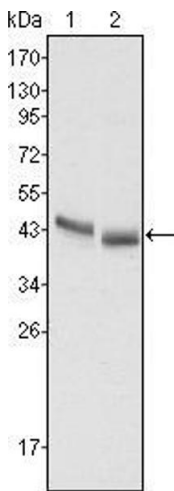
Storage:	4 °C/-20 °C
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Storage Comment:	4°C, -20°C for long term storage
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Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human stomach cancer tissues using PGA5 mouse mAb with DAB staining.



Western Blotting

Image 2. Western blot analysis using PGA5 mouse mAb against HepG2 (1) and SMMC-7721 (2) cell lysate.