

Product datasheet for **AM06373SU-N**

PGA3 Mouse Monoclonal Antibody [Clone ID: 2C1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2C1
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: 1/10000. Western Blot: 1/500-1/2000. Immunohistochemistry on Paraffin Sections: 1/200-1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of Human PGA5 expressed in E. Coli.
Specificity:	This antibody recognizes Human PGA5. Other species not tested.
Formulation:	State: Ascites State: Ascitic fluid Preservative: 0.03% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	42 kDa
Gene Name:	pepsinogen 3, group I (pepsinogen A)
Database Link:	Entrez Gene 643834 Human P0DJD8



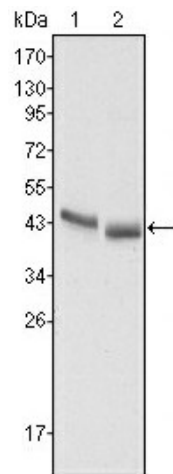
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Background:

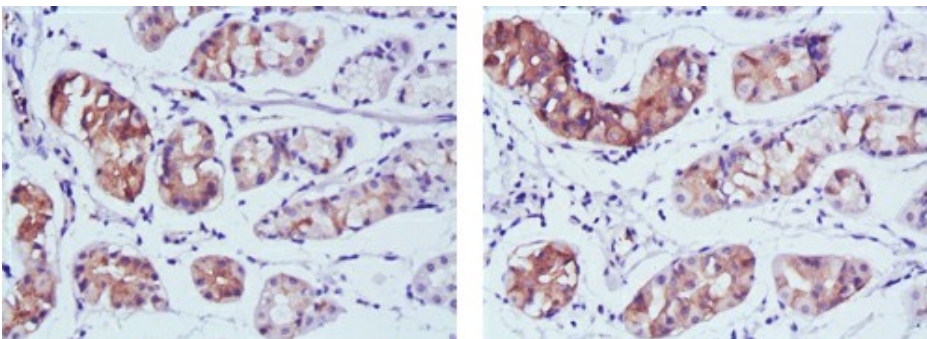
PGA5: Pepsinogen 5, group I (pepsinogen A). Pepsinogens are the inactive precursors of pepsin, the major acid protease found in the stomach. Pepsin is one of the main proteolytic enzymes secreted by the gastric mucosa. Pepsin consists of a single polypeptide chain and arises from its precursor, pepsinogen,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

Synonyms:

Pepsin A, PGA, pepsinogen 3 group I, pepsinogen 4 group I, pepsinogen 5 group I, Pepsinogen A, PGA3, PGA4, PGA5

Product images:

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



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