

## Mouse Monoclonal Antibody to PGA5

<b>Catalogue Number</b>	sAP-0326
<b>Target Molecule</b>	<p><b>Name: PGA5</b></p> <p><b>Aliases:</b> Pepsinogen 5; Pepsin A</p> <p><b>MW: 42kDa</b></p> <p><b>Entrez Gene ID: 5222</b></p>
<b>Description</b>	<p>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</p>
<b>Immunogen</b>	Purified recombinant fragment of human PGA5 expressed in E. Coli.
<b>Recombinant Species</b>	Human
<b>Clone</b>	MM2C1;
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. Proc Natl Acad Sci U S A. 2002 Dec 24;99(26):16899-903. ; 2. Nat Genet. 2004 Jan;36(1):40-5.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**