

# Pepsin A Rabbit pAb

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Catalog # AP54295

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Primary Accession</b>       | <a href="#">P00791</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Predicted</b>               | Pig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Calculated MW</b>           | 41262                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Immunogen</b>               | Native Pig Pepsin protein, Isolated and purified from porcine stomach mucosa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>SUBCELLULAR LOCATION</b>    | Secreted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Background Descriptions</b> | Pepsin is a digestive enzyme with particularly broad specificity. It is stored as pepsinogen, so only released when needed. In the stomach, chief cells release pepsinogen. The hormone gastrin and the vagus nerve trigger the release of both pepsinogen and HCl from the stomach lining when food is ingested. HCl creates an acidic environment which allows pepsinogen to unfold and cleave itself in an autocatalytic fashion, thereby generating pepsin (the active form). Pepsin may then cleave the dietary proteins into smaller peptides. |

## Additional Information

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| <b>Other Names</b> | Pepsin A, 3.4.23.1, PGA                                                                                                                                                                         |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500<br>0-10000                                                                                                            |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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|-----------------|------------------------------------------------------------------------------|
| <b>Name</b>     | PGA                                                                          |
| <b>Function</b> | Shows particularly broad specificity; although bonds involving phenylalanine |

and leucine are preferred, many others are also cleaved to some extent.

**Cellular Location**

Secreted.

## **Background**

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.