

## Rat Pepsinogen A ELISA Kit | PGA elisa kit

Rat Pepsinogen A ELISA Kit

CATALOG #  
**AAA16339**

REACTIVITY  
**Rat**

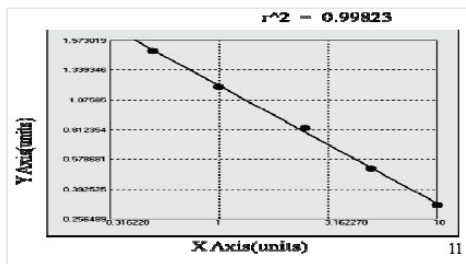
### PRODUCT SYNONYMS

Pepsinogen A; Rat Pepsinogen A ELISA Kit; PGA elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                         |
| Assay Type              | Competitive or Sandwich                                                                                                                                                            |
| Detection Range         | 100-2500pg/mL                                                                                                                                                                      |
| Sensitivity             | 1.0pg/ml                                                                                                                                                                           |
| Intended Uses           | This PGA ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat PGA. This ELISA kit for research use only, not for therapeutic applications! |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for PGA elisa kit

**Principle of the assay:** PGA ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-PGA antibody and an PGA-HRP conjugate. The assay sample and buffer are incubated together with PGA-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the PGA concentration since PGA from samples and PGA-HRP conjugate compete for the anti-PGA antibody binding site. Since the number of sites is limited, as more sites are occupied by PGA from the sample, fewer sites are left to bind PGA-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The PGA concentration in each sample is interpolated from this standard curve.

### NCBI AND UNIPROT INFORMATION

NCBI GI #

387013

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| NCBI GeneID                      | 5222                                    |
| Molecular Weight                 | 41,993 Da                               |
| NCBI Official Full Name          | pepsinogen A                            |
| NCBI Official Synonym Full Names | pepsinogen 5, group I (pepsinogen A)    |
| NCBI Official Symbol             | PGA5                                    |
| NCBI Protein Information         | pepsin A-5; pepsinogen-5; pepsinogen A5 |
| UniProt Protein Name             | Pepsin A-5                              |
| UniProt Gene Name                | <b>PGA5</b>                             |
| UniProt Entry Name               | PEPA5_HUMAN                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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