

## Human Pepsinogen A (PG-A) ELISA Kit

Catalog No: #EK8568



Package Size: #EK8568-1 48T #EK8568-2 96T

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## Description

Product Name	Human Pepsinogen A (PG-A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:3.12-200 ng/mL

Sensitivity:1.22 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PG-A in samples. An antibody specific for PG-A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPG-A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PG-A is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PG-A bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Pepsinogen A is secreted exclusively by the chief cells of the gastric corpus. The levels of Pepsinogen I correlate directly with the active number of chief cells in this area. In cases of severe atrophic gastritis of the corpus region, the chief cells will be destroyed and the levels of Pepsinogen I will fall dramatically.Pepsin is one of the main proteolytic enzymes secreted by the gastric mucosa. It consists of a single polypeptide chain and arises from its precursor, pepsinogen, by removal of a 41-amino acid segment from the amino end. Pepsin is particularly effective in cleaving peptide bonds involving aromatic amino acids. Samloff and Townes (1970) showed that the pepsinogen-5 derived from the stomach and excreted in the urine is absent in some persons. Family and population data supported the view that absence of PG-5 is recessive.

Note: This product is for in vitro research use only