SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-PGC antibody

Catalog Number: SL1551R

FOR RESEARCH USE ONLY

[DATASHEET]

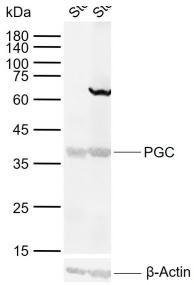
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	PGC
Immunogen:	KLH conjugated synthetic peptide derived from human PGC: 21-120/388
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Chicken,Cow)
Predicted MW.:	42kDa
Subcellular Location:	Secretory protein
Background:	This gene encodes an aspartic proteinase that belongs to the peptidase family A1. The encoded protein is a digestive enzyme that is produced in the stomach and constitutes a major component of the gastric mucosa. This protein is also secreted into the serum. This protein is synthesized as an inactive zymogen that includes a highly basic prosegment. This enzyme is converted into its active mature form at low pH by sequential cleavage of the prosegment that is carried out by the enzyme itself. Polymorphisms in this gene are associated with susceptibility to gastric cancers. Serum levels of this enzyme are used as a biomarker for certain gastric diseases including Helicobacter pylori related gastritis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 1. [provided by RefSeq, Oct 2009]

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

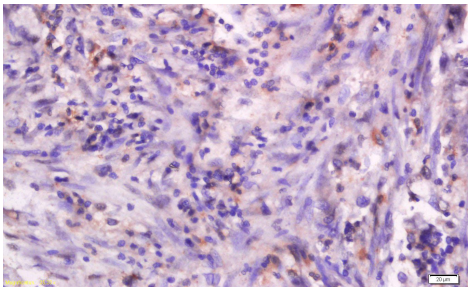
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	Function: Hydrolyzes a variety of proteins. **Subcellular Location:** Secreted. **Similarity:** Belongs to the peptidase A1 family. **Database links:** **Entrez Gene:** 5225 Human **Entrez Gene:** 24864 Rat Omim: 169740 Human **SwissProt:** P20142 Human **SwissProt:** P04073 Rat **Unigene:** 1867 Human **Unigene:** 9735 Rat Pepsinogen C (PG-C) is mainly used for the relationship with susceptibility to gastric cancer and its precancerous lesions.

[VALIDATION IMAGES]



Sample:
Lane 1: Mouse Stomach tissue lysates
Lane 2: Rat Stomach tissue lysates
Primary: Anti-PGC (SL1551R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 42 kDa
Observed band size: 38 kDa



Tissue/cell: Human gastric cancer; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-PGII Polyclonal Antibody, Unconjugated(SL1551R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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