

## Anti-PGC antibody

|                 |                                                         |
|-----------------|---------------------------------------------------------|
| <b>Cat. No.</b> | ml221129                                                |
| <b>Package</b>  | 25 µl/100 µl/200 µl                                     |
| <b>Storage</b>  | -20°C, pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol |

### Product overview

|                     |                                     |
|---------------------|-------------------------------------|
| <b>Description</b>  | Anti-PGC rabbit polyclonal antibody |
| <b>Applications</b> | ELISA, WB, IHC                      |
| <b>Immunogen</b>    | Fusion protein of human PGC         |
| <b>Reactivity</b>   | Human                               |
| <b>Content</b>      | 0.2 mg/ml                           |
| <b>Host species</b> | Rabbit                              |
| <b>Ig class</b>     | Immunogen-specific rabbit IgG       |
| <b>Purification</b> | Antigen affinity purification       |

### Target information

|                  |                              |
|------------------|------------------------------|
| <b>Symbol</b>    | PGC                          |
| <b>Full name</b> | progastricsin (pepsinogen C) |

**Synonyms** PEPC, PGII

**Swissprot** P20142

### Target 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.

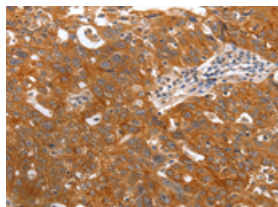
## Applications

### Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human ovarian cancer

Recommended dilution: 25-100

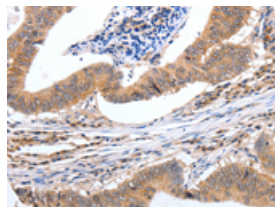


The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using ml221129(PGC Antibody) at dilution 1/20, on the right is treated with fusion protein. (Original magnification:  $\times 200$ )

Predicted cell location: Cytoplasm

Positive control: Human colon cancer

Recommended dilution: 25-100



The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using ml221129(PGC Antibody) at dilution 1/20, on the right is treated with fusion protein. (Original magnification:  $\times 200$ )

### Western blotting

Predicted band size: 42 kDa

Positive control: 823 cells

Recommended dilution: 500-2000

Gel: 12%SDS-PAGE

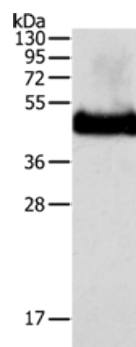
Lysate: 50  $\mu$ g

Lane: 823 cells

Primary antibody: ml221129(PGC Antibody) at dilution 1/200

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 30 seconds



#### ELISA

Recommended dilution: 2000-5000

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