ARG44464
anti-PGC / Progastricsin antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PGC / Progastricsin
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Target Name	PGC / Progastricsin
Species	Human
Immunogen	Human PGC / Progastricsin recombinant protein
Conjugation	Un-conjugated
Alternate Names	PGC; Progastricsin; Pepsinogen C; EC 3.4.23.3; Gastricsin; Progastricsin (Pepsinogen C); Pepsinogen Group II; Preprogastricsin; EC 3.4.23; Pepsin C; PEPC; PGII

Application Instructions

Application table

Application	Dilution
FACS	1-3 µg/1x10^6
ICC/IF	5 µg/ml
IHC-P	2-5 µg/ml
WB	0.25-0.5 µg/ml

Application Note: The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

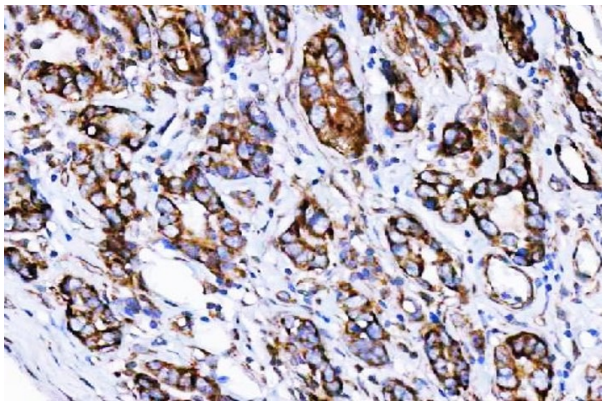
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

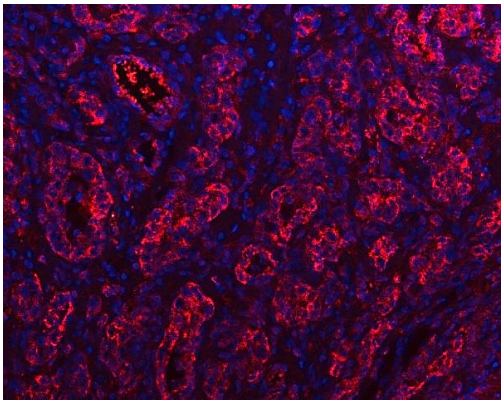
Gene Symbol	PGC
Gene Full Name	Progastricsin
Background	This gene encodes an aspartic proteinase that belongs to the peptidase family A1. The encoded protein is a digestive enzyme that is produced in the stomach and constitutes a major component of the gastric mucosa. This protein is also secreted into 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.
Function	Hydrolyzes a variety of proteins.
Calculated Mw	42 kDa
PTM	Disulfide bond, Zymogen
Cellular Localization	Secreted

Images



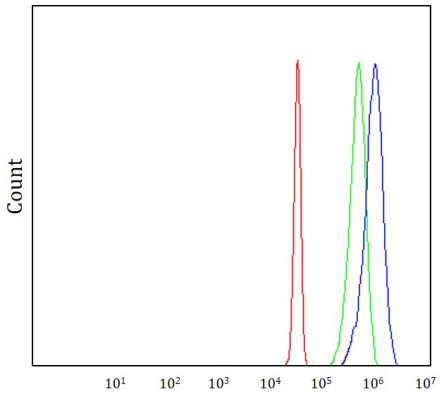
ARG44464 anti-PGC / Progastricsin antibody IHC-P image

Immunohistochemistry: Human gastric adenocarcinoma stained with ARG44464 anti-PGC / Progastricsin antibody at 2 µg/mL dilution.



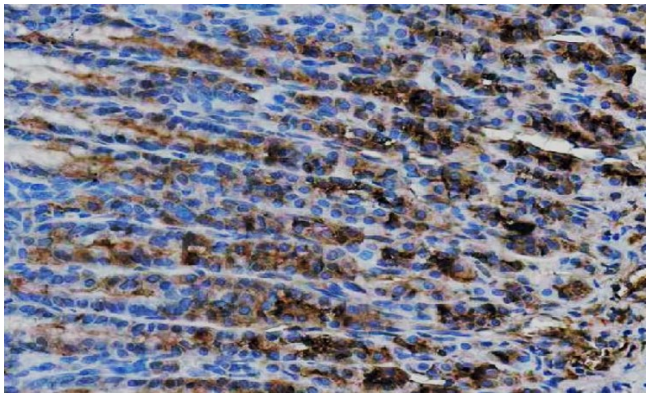
ARG44464 anti-PGC / Progastricsin antibody IHC-P image

Immunohistochemistry: Human gastric cancer stained with ARG44464 anti-PGC / Progastricsin antibody at 5 µg/mL dilution.



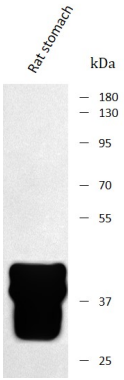
ARG44464 anti-PGC / Progastricsin antibody FACS image

Flow Cytometry: JK stained with ARG44464 anti-PGC / Progastricsin antibody at 1 µg/10^6 cells dilution.



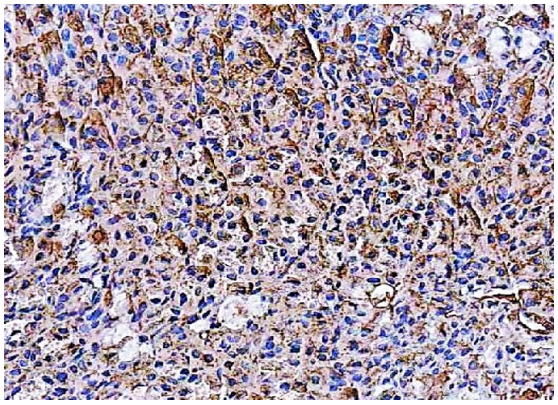
ARG44464 anti-PGC / Progastricsin antibody IHC-P image

Immunohistochemistry: Rat stomach stained with ARG44464 anti-PGC / Progastricsin antibody at 2 µg/mL dilution.



ARG44464 anti-PGC / Progastricsin antibody WB image

Western blot: Rat stomach stained with ARG44464 anti-PGC / Progastricsin antibody at 0.5 µg/mL dilution.



ARG44464 anti-PGC / Progastricsin antibody IHC-P image

Immunohistochemistry: Mouse stomach stained with ARG44464 anti-PGC / Progastricsin antibody at 2 µg/mL dilution.

ARG44464 anti-PGC / Progastricsin antibody WB image

Western blot: Mouse stomach stained with ARG44464 anti-PGC / Progastricsin antibody at 0.5 µg/mL dilution.