

ARG66418 anti-PGA5 antibody [SQab18120]

Package: 100 µg
Store at: -20°C

Summary

| | |
|---------------------|-------------------------------------------------------|
| Product Description | Mouse Monoclonal antibody [SQab18120] recognizes PGA5 |
| Tested Reactivity | Hu, Ms, Pig |
| Tested Application | ELISA, FACS, ICC/IF, IHC-P, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | SQab18120 |
| Isotype | IgG1, kappa |
| Target Name | PGA5 |
| Species | Human |
| Immunogen | Recombinant Human PGA5 protein. |
| Conjugation | Un-conjugated |
| Alternate Names | EC 3.4.23.1; Pepsin A-5; Pg5; Pepsinogen-5 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|------------------|
| | ELISA | 1:3000 - 1:10000 |
| | FACS | 1:400 - 1:1000 |
| | ICC/IF | 1:400 - 1:1000 |
| | IHC-P | Assay-dependent |
| | WB | 1:2500 - 1:5000 |

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

Properties

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|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purification | Affinity purification with immunogen. |
| Buffer | PBS (pH 7.4) and 0.01% Thimerosal. |
| Preservative | 0.01% Thimerosal |
| Concentration | 1 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. |

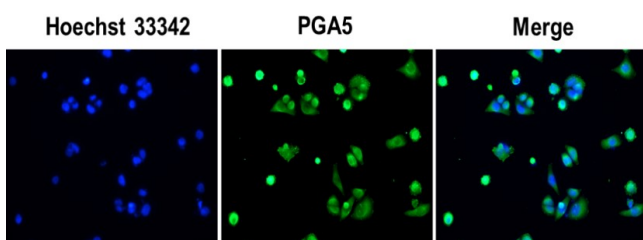
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

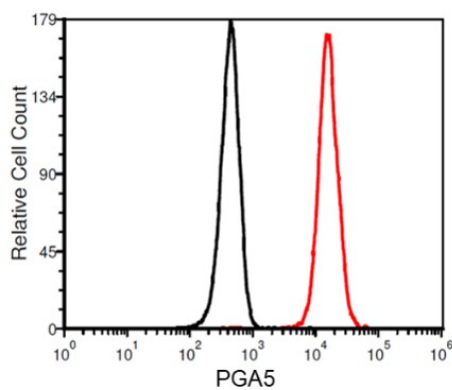
| | |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Symbol | PGA5 |
| Gene Full Name | pepsinogen 5, group I (pepsinogen A) |
| Background | This gene encodes a protein precursor of the digestive enzyme pepsin, a member of the peptidase A1 family of endopeptidases. The encoded precursor is secreted by gastric chief cells and undergoes autocatalytic cleavage in acidic conditions to form the active enzyme, which functions in the digestion of dietary proteins. This gene is found in a cluster of related genes on chromosome 11, each of which encodes one of multiple pepsinogens. Pepsinogen levels in serum may serve as a biomarker for atrophic gastritis and gastric cancer. [provided by RefSeq, Jul 2015] |
| Function | Shows particularly broad specificity; although bonds involving phenylalanine and leucine are preferred, many others are also cleaved to some extent. [UniProt] |
| Calculated Mw | 42 kDa |
| Cellular Localization | Secreted. [UniProt] |

Images



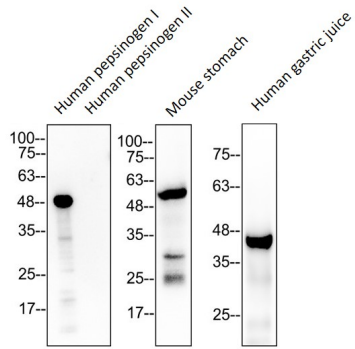
ARG66418 anti-PGA5 antibody [SQab18120] ICC/IF image

Immunofluorescence: HeLa cells were fixed in 4% PFA, permeabilized with PBS containing 0.1% Triton X-100. Cells were stained with ARG66418 anti-PGA5 antibody [SQab18120] (green) at 1:100 dilution and cell nuclei were stained with Hoechst 33342 (blue).



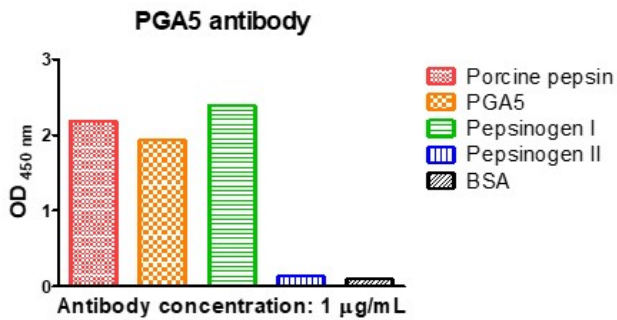
ARG66418 anti-PGA5 antibody [SQab18120] FACS image

Flow Cytometry: K562 cells were stained with ARG66418 anti-PGA5 antibody [SQab18120] at 2 µg/ml (red) and without antibody control (black).



ARG66418 anti-PGA5 antibody [SQab18120] WB image

Western blot: 25 ng of Purified Human pepsinogen I, 25 ng of Purified Human pepsinogen II, 30 µg of Mouse stomach lysate and 10 µl of Human gastric juice stained with ARG66418 anti-PGA5 antibody [SQab18120] at 1:5000 dilution.



ARG66418 anti-PGA5 antibody [SQab18120] ELISA image

ELISA: The specificity of ARG66418 anti-PGA5 antibody [SQab18120] recognize recombinant proteins. Red: Porcine pepsin; Orange: PGA5; Green: Pepsinogen I; Blue: Pepsinogen II; Black: BSA (negative control).