

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.	

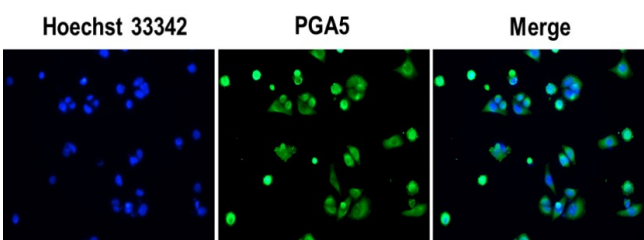
Properties

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.

Bioinformation

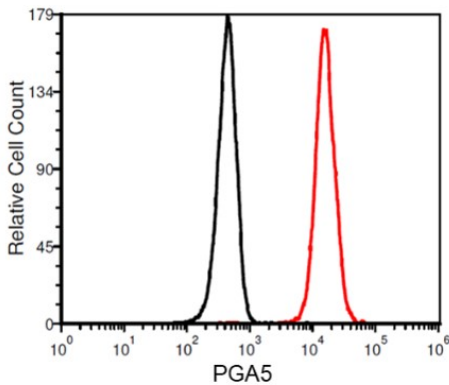
Gene Symbol	PGA5
Gene Full Name	pepsinogen 5, group I (pepsinogen A)
Background	This gene encodes a protein precursor of the digestive enzyme pepsin, a member of the peptidase A1 family of endopeptidases. The encoded precursor is secreted by gastric chief cells and undergoes autocatalytic cleavage in 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



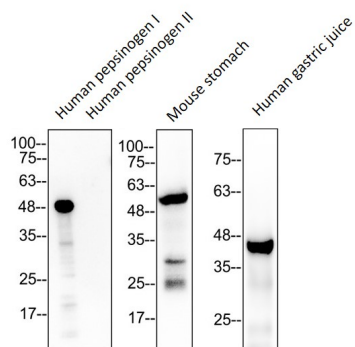
ARG66418 anti-PGA5 antibody [SQab18120] ICC/IF image

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).



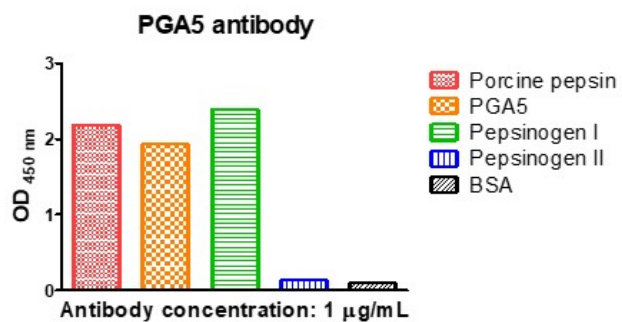
ARG66418 anti-PGA5 antibody [SQab18120] FACS image

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).