

Anti-h PG II 8103 SPTN-5

Product overview

Catalog number	100121
Specificity	Antibody recognizes human pepsinogen II
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	24 months from manufacturing at 2–8 °C
Subclass	IgG ₁
Analyte description	Pepsinogen is the pro-form of pepsin and is produced in the stomach by chief cells. The major part of pepsinogen is secreted into the gastric lumen but a small amount can be found in the blood. Alterations in the serum pepsinogen concentrations has been found with <i>Helicobacter pylori</i> (<i>H. pylori</i>) infections, peptic ulcer disease, gastritis, and gastric cancer. More precise analysis may be achieved by measuring the pepsinogen I/II ratio.

Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.4–7.7
Purity	≥ 95 %

Kinetic parameters

Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	3.5×10^9 1/M
Determination method	SPR analysis (Biacore)
Determination antigen	PG II, Medix Biochemica in-house (B330/99)



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Cross-reactivities

Human Pepsinogen I	1.16 % (Medix Biochemica in-house U130/01, U123/01)
Porcine Pepsinogen	< 0.85 % (Sigma, Cat P-4656, Lot 82H8065)
Gastrin I	< 0.85 % (Sigma, Cat G-9020, Lot 32H49503)
Somatostatin	< 0.85 % (Sigma, Cat S-9129, Lot 44H03692)
Peptide YY	< 0.85 % (Sigma, Cat P-1306, Lot 73H03692)
Bombesin	< 0.85 % (Sigma, Cat B-4272, Lot 95H58651)

Epitope

N/D

Pair recommendations

		DETECTION		
		8101	8102	8103
CAPTURE	8101	-	+	+
	8102	-	-	+
	8103	+	+	-

Following pairs are especially recommended for the below mentioned assays:
 FIA: 8101 (capture) – 8102 (detection), 8101 – 8103 and 8103 – 8102
 LF: 8103 (membrane) – 8101 (particles) and 8103 – 8102
 IT: 8101 – 8103

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Platforms tested

FIA, LF, IT

Antigens tested

Recombinant Pepsinogen II antigen, Medix Biochemica 610001 and native Pepsinogen II antigen Lee Biosolutions 440-52.

Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+25 °C, 21 days	OK
+35 °C, 21 days	OK
+45 °C, 7 days	OK

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous

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References

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