

Anti-h Gastrin-17 11705 SPTN-5

Product overview

Catalog number	100792
Specificity	Antibody recognizes human gastrin-17
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	18 months from manufacturing at 2–8 °C
Subclass	IgG ₁
Analyte description	Gastrin is a peptide hormone released by G cells in the stomach, duodenum, and the pancreas. Gastrin-17 is one of the biologically active forms of gastrin. Levels of gastrin-17 in the blood is measured to evaluate recurrent peptic ulcers, gastrinomas, and other serious abdominal symptoms.

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	6.3–7.1
Purity	≥ 95 %

Kinetic parameters

Association rate constant	4.7×10^5 1/Ms
Dissociation rate constant	9.1×10^{-5} 1/s
Affinity constant	$K_A = 5.2 \times 10^9$ 1/M; $K_D = 2.1 \times 10^{-10}$ M (= 0.21 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Synthetic Gastrin-17 peptide aa8–17 (GenScript)



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Cross-reactivities Recognizes gastrin-14 and gastrin-34

Epitope C-terminal part of gastrin-17

Pair recommendations

		DETECTION			
		11701	11702	11705	11707
CAPTURE	11701	-	-	+	+
	11702	-	-	+	+
	11705	+	+	-	-
	11707	+	+	-	-

Following pairs are especially recommended for the below mentioned assays:

FIA: 11702 (capture) – 11705 (detection), 11702 – 11707, 11701 – 11705, and 11701 – 11707

LF: 11702 (membrane) – 11707 (particles) and 11705 – 11701

CLIA: 11702 – 11707 and 11701 – 11707

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, CLIA

Antigens tested Synthetic Gastrin 17 (G-17) Antigen, Medix Biochemica LA451L

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °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 -

References -



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