

Anti-h PIVKA-II 12103 SPTN-5

Product overview

Catalog number	100872
Specificity	Antibody recognizes human PIVKA-II (Protein Induced Vitamin K absence or Antagonist-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	36 months from manufacturing at 2–8 °C
Subclass	IgG ₁
Analyte description	Protein induced by vitamin K absence or antagonist-II (PIVKA-II), also known as des- γ -carboxy prothrombin (DCP), is an abnormal form of prothrombin. In patients with hepatocellular carcinoma (HCC), γ -carboxylation of prothrombin is impaired leading to formation of PIVKA-II, which can be used to assess the surveillance, diagnosis and management of HCC.

Parameters tested on each lot

Product appearance	Liquid, the antibody may precipitate during storage; this does not affect quality. It is recommended that the product be filtered before use.
Product concentration	5.0 mg/ml (+/-10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.6–7.6
Purity	≥ 95 %

Kinetic parameters

Association rate constant	1.4 x 10 ⁵ 1/Ms
Dissociation rate constant	Not applicable (N/A)
Affinity constant	N/A
Determination method	BLI (Octet RED96e)
Determination antigen	Recombinant PIVKA-II, Genscript (Cat T06702)

**Legal disclaimer**

Cross-reactivities Recognizes Prothrombin.

Epitope Amino acid region 23-46 (SYEEAFEALESSTATDVFVWAKYTA)

Pair recommendations

		DETECTION		
		12102	12103	12106
CAPTURE	12102	-	-	+
	12103	+	-	+
	12106	+	+	-

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, CLIA

Antigens tested Not determined (N/D)

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 -



Legal disclaimer