Medix Biochemica

Product specification
ANTIBODY
2023-05-23

Anti-h PIVKA-II 12102 SPTN-5

Product overview

Catalog number	100871
Specificity	Antibody recognizes human PIVKA-II (Protein Induced Vitamin K absence or Antagonist-II)
Description	Monoclonal mouse antibody, cultured *in vitro* 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	Unspecified, storage 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, 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	1.8×10^5 1/Ms
Dissociation rate constant	5.4×10^{-6} 1/s
Affinity constant	$K_A = 3.3 \times 10^{10}$ 1/M; $K_D = 2.9 \times 10^{-11}$ M (= 0.03 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Recombinant PIVKA-II, Genscript (Cat T06702)

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Cross-reactivities

Does not recognize Prothrombin.

Epitope

Amino acid region 11-28 (GNLERECVEETCSYEEAF)

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)

Product stability

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

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References

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