

Anti-h HE4 4502 SPTN-5

Product overview

Catalog number	100592
Specificity	Antibody recognizes human epididymis protein 4 (HE4)
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	Human epididymis protein 4 (HE4), also known as WAP four-disulfide core domain protein 2, is a 124 amino acid long protease inhibitor. Serum HE4 is often measured together with CA125 to monitor progression of epithelial ovarian cancer after treatment.

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	6.1–7.2
Purity	≥ 95 %

Kinetic parameters

Association rate constant	1.9×10^5 1/Ms
Dissociation rate constant	1.6×10^{-4} 1/s
Affinity constant	$K_A = 1.2 \times 10^9$ 1/M; $K_D = 1.2 \times 10^{-9}$ M (= 1.2 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Epididymis Protein 4 (HE4), Medix Biochemica (Cat 345-50)



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Cross-reactivities Does not recognize cancer antigens CA125, CA19-9 or CA15-3

Epitope Overlapping epitope with Anti-HE4 antibody 2H5¹

Pair recommendations

		DETECTION				
		4501	4502	4503	4505	4506
CAPTURE	4501	-	-	+	+	+
	4502	-	-	+	+	+
	4503	-	-	-	-	-
	4505	-	-	-	-	-
	4506	-	-	-	-	-

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

Antigens tested Recombinant Epididymis Protein 4 (HE4) antigen, Medix Biochemica 345-50.

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 7 days	OK
+35 °C, 21 days	Some charge alterations
+45 °C, 3 days	OK
+45 °C, 7 days	Some charge alterations

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 ¹Hellström I, Raycraft J, Hayden-Ledbetter MH et al. (2003). The HE4 (WFDC2) protein is a biomarker for ovarian carcinoma. Cancer Res 63:3695-3700.



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