

PRODUCT SPECIFICATIONS

Date: 2017-02-17

Name	Anti-h HE4 4502 SPTN-5
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 code	100592
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	Shelf life unspecified, storage at +2-8 °C
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 FROM EACH LOT

Product appearance	Clear liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %)
Immunoreactivity	80-120 % compared to reference in an IFMA-test
IEF Profile	6.5 - 7.2
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₁
Association constant	Not determined (N/D)
Dissociation constant	N/D
Affinity constant	N/A
Determination method	N/A
Determination antigen	N/A

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Cross-reactivities No cross-reactivity against cancer antigens CA125, CA19-9 or CA15-3.

Epitope Overlapping epitope with Anti-HE4 antibody 2H5¹.

Pair recommendations	CAPTURE ANTIBODY	DETECTION ANTIBODY
	4502	4503, 4505, 4506

Please note that pair recommendations are based on results obtained in our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations should be taken only as a directive.

Product stability	TEMPERATURE, DAYS	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	Charge changes.
	+45 °C, 3 days	OK
	+45 °C, 7 days	Charge changes.

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. The maximum duration of the test is 21 days, except for the +45 °C only 7 days. Please note that the shelf life given on page one 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.