

## PRODUCT SPECIFICATIONS

<b>Name</b>	Anti-h PSA 8313 SPTN-5
<b>Specificity</b>	Antibody recognizes human free prostate-specific antigen
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
<b>Product code</b>	100488
<b>Product buffer solution</b>	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	18 months from manufacturing at 2-8 °C
<b>Analyte description</b>	Prostate-specific antigen (PSA) is a protein produced by the cells of the prostate gland. PSA is present in small quantities in the serum of healthy men, and is often elevated in the presence of prostate cancer and in other prostate disorders. A blood test to measure PSA is considered the most effective test currently available for the early detection of prostate cancer, but this effectiveness has also been questioned.

## PARAMETERS TESTED ON EACH LOT

<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Immunoreactivity</b>	80-120 % compared to the reference sample in an FIA test
<b>IEF Profile</b>	5.7 - 6.9
<b>Purity</b>	≥ 95 %

## PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

<b>Subclass</b>	IgG <sub>1</sub>
<b>Association rate constant</b>	2.0 x 10 <sup>6</sup> 1/Ms
<b>Dissociation rate constant</b>	1.5 x 10 <sup>-5</sup> 1/s
<b>Affinity constant</b>	K <sub>A</sub> = 1.3 x 10 <sup>11</sup> 1/M; K <sub>D</sub> = 7.5 x 10 <sup>-12</sup> M (=0.0075 nM)
<b>Determination method</b>	SPR analysis (ProteOn XPR36)
<b>Determination antigen</b>	PSA human, Scripps (Cat P0725, Lot 2470302)

### Legal disclaimer

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**Cross-reactivities** No cross-reactivity with PSA-ACT complex, nor hK2. Others not tested.

**Epitope** Amino acids 82-89 (LKNRFLRP)

<b>Pair recommendations</b>	<b>CAPTURE ANTIBODY</b>	<b>DETECTION ANTIBODY</b>
	8301, 8311, 8312	8313

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.

<b>Product stability</b>	<b>TEMPERATURE, TIME</b>	<b>RESULT</b>
	-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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