

## Product Datasheet

### Anti-h PSA 8311 SPRN-1 100103

<b>Product Name</b>	Anti-h PSA 8311 SPRN-1
<b>Catalog Number</b>	100103
<b>Description</b>	Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components.
<b>Tested Applications</b>	FIA
<b>Brand</b>	Medix Biochemica
<b>Form/Appearance</b>	Liquid, may turn slightly opaque during storage
<b>Concentration</b>	1.0-1.1 mg/ml
<b>Storage</b>	+2-8°C
<b>Note</b>	Clone 8311 reacts with non-reduced and reduced intact PSA but not with reduced PSA fragments (Rye et al., 1999). In the same study affinities for free-PSA and PSA-ACT-complex were, 1.7 x 10-10 mol/l and 1.55 x 10-10, respectively. They also noted that antibodies binding to epitope group 6 form a good pair with antibodies from groups 1 and 3. Clone 8311 crossreacts with human kallikrein-2 (Black, 1999b) and can be used to develop a hK2-assay.
<b>Isotype</b>	IgG2a
<b>Clonality</b>	Monoclonal
<b>Epitope</b>	Residues 3-11, group 6a as described in Rye et al. (1999)
<b>Purity</b>	≥ 95 %
<b>Affinity constant</b>	KA = 1 x 10 <sup>10</sup> 1/M
<b>Associated Products</b>	Native PSA antigen, Medix Biochemica 497-11 and native PSA-ACT complex, Medix Biochemica 498-11.
<b>Buffer</b>	37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.095 % NaN3 as a preservative
<b>IEF Profile</b>	6.8-7.5
<b>Cross Reactivity</b>	PSA/α1-ACT complex 76 %, Kallikrein < 0.36 %, PAP < 0.36 %
<b>Specificity</b>	Antibody recognizes human prostate-specific antigen
<b>Shelf Life</b>	36 months

**References**

Black, M.H., Grass, C.L., Leinonen, J., Stenman, U-H. and Diamandis, E.P., (1999a) Characterization of monoclonal antibodies for prostate-specific antigen and development of highly sensitive free prostate-specific antigen assays. *Clin. Chem.*, 45(3):347-354 Black, M.H., Magklara, A., Obiezu, C.V., Melegos, D.N. and Diamandis, E.P., (1999b) Development of an ultrasensitive immunoassay for human glandular kallikrein with no crossreactivity from prostate-specific antigen. *Clin. Chem.*, 45(6):790-799 Ferguson, R.A., Yu, H., Kalyvas, M., Zammit, S. and Diamandis, E.P., (1996) Ultrasensitive detection of prostate-specific antigen by time-resolved immunofluorometric assay and the Immulite® immunochemiluminescent third-generation assay: potential applications in prostate and breast cancer. *Clin. Chem.*, 42(5):675-684 Magklara, A., Scorilas, A., López-Otín, C., Vizoso, F., Ruibal, A. and Diamandis, E.P., (1999) Human glandular kallikrein in breast milk, amniotic fluid, and breast cyst fluid. *Clin. Chem.*, 45(10):1774-1780 Obiezu, C.V., Giltay, E.J., Magklara, A., Scorilas, A., Gooren, L.J.G., Yu, H., Howarth, D.J.C. and Diamandis, E.P., (2000) Serum and urinary prostate-specific antigen and urinary human glandular kallikrein concentrations are significantly increased after testosterone administration in female-to-male transsexuals. *Clin. Chem.*, 46(6):859-862 Rye, P.D., Bormer, O.P. and Paus, E. (guest editors) (1999), ISOBM TD-3 International Workshop on monoclonal antibodies against prostate-specific antigen. *Tumor Biol.*, 20(suppl 1):1-94