

Product Datasheet

Anti-h PSA 8301 SPRN-5 100102

Product Name	Anti-h PSA 8301 SPRN-5
Catalog Number	100102
Description	Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components.
Tested Applications	FIA
Brand	Medix Biochemica
Form/Appearance	Liquid, may turn slightly opaque during storage
Concentration	5.0 mg/ml (+/- 10 %)
Storage	+2-8°C
Note	Clone 8301 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, 9.0 x 10 ⁻⁹ mol/l and 5.2 x 10 ⁻⁹ , respectively. They also noted that antibodies binding to epitope group 3a form a good pair with antibodies from groups 1, 5a, 5c and 6. Clone 8301 does not cross-react with human kallikrein-2 (Black, 1999b).
Isotype	IgG1
Clonality	Monoclonal
Epitope	Residues 158-163, group 3 as described in Rye et al. (1999)
Purity	≥ 95 %
Affinity constant	KA = 1 x 10 ¹¹ 1/M
Associated Products	Native PSA antigen, Medix Biochemica 497-11 and native PSA-ACT complex, Medix Biochemica 498-11.
Buffer	37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
IEF Profile	6.5-7.2
Cross Reactivity	PSA/α1-ACT complex 59 %, Kallikrein < 0.04 %, PAP < 0.04 %
Specificity	Antibody recognizes human prostate-specific antigen
Shelf Life	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