

## **Product Datasheet**

**Anti-h LH 5301 SP-5  
100016**

---

<b>Product Name</b>	Anti-h LH 5301 SP-5
<b>Catalog Number</b>	100016
<b>Description</b>	Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components.
<b>Tested Applications</b>	LF, CLIA, FIA
<b>Brand</b>	Medix Biochemica
<b>Form/Appearance</b>	Liquid, may turn slightly opaque during storage
<b>Concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Storage</b>	+2-8°C
<b>Note</b>	Nilsson et al. (2001) analyzed epitopes of 30 different LH mAbs. Antibody 5301 was classified as belonging to epitope group beta 2, recognizing intact LH, its beta subunit as well as a common variant of LH. Antibody 5301 did not cross react with TSH or FSH but did so with hCG.
<b>Isotype</b>	IgG1
<b>Clonality</b>	Monoclonal
<b>Epitope</b>	Beta 2 as described in Nilsson et al. (2001) Two antibodies binding to the same, or closely located epitopes, belong to the same group and hence cannot be used as a pair in a sandwich assay. Epitope group numbering does not give any detailed information where the epitope is located.
<b>Purity</b>	≥ 95 %
<b>Affinity constant</b>	$K_A = 4.4 \times 10^{11} \text{ l/M}$ ; $K_D = 2.3 \times 10^{-12} \text{ M}$ ( = 2.3 pM)
<b>Associated Products</b>	<b>Native LH antigen 996-31</b>
<b>Buffer</b>	0.9 % NaCl, 0.095 % NaN3 as a preservative
<b>IEF Profile</b>	6.3-7.2
<b>Cross Reactivity</b>	LH α 13 %, LH β 170 %, FSH 5 %, hCG 138 %, TSH 0.03 %
<b>Specificity</b>	Antibody recognizes human luteinizing hormone (lutropin), and its beta-subunit
<b>Shelf Life</b>	36 months

---

**References**

Federici, M.M., Fraser, R., Lundqvist, C., and Lankford, J.C., (1982) Production and characterization of monoclonal antibodies human lutenizing hormones. Fed. Proc., 41

Nilsson, C., Seppälä, M., and Pettersson, K., (2001) Immunological characterization of human luteinizing hormone with special regard to a common genetic variant. J.Endocrinol. 168:10-116

Pettersson, K.S.I., and Söderholm J.R-M., (1990) Ultrasensitive two-site immunometric assay of human lutropin by time-resolved fluorometry. Clin. Chem. 36(11):1928-1933

Pettersson, K.S.I., and Söderholm J.R-M., (1991) Individual differences in lutropin immunoreactivity revealed by monoclonal antibodies. Clin. Chem. 37(3):333-340

Vilja, P., Wichmann, L., Isola, J., and Tuohimaa, P., (1988) Monoclonal-antibody based noncompetitive avidin-biotin assay for lutropin in urine.Clin. Chem. 34(8):1585-1590