

## Product Datasheet

### Anti-h TSH 5405 SP-5 100819

<b>Product Name</b>	Anti-h TSH 5405 SP-5
<b>Catalog Number</b>	100819
<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>	Wu et al. (2002) developed a three antibody assay system which utilizes clones 5403, 5404 and 5405. Clone 5405 was used as a coated antibody and clones 5403 and 5404 were used as biotinylated label antibodies. They were able to achieve 0.002 mIU/L analytical and 0.017 mIU/L functional sensitivity. The test had negligible cross-reactivity with LH, FSH and hCG which were tested up to 200 mIU/L and 2500 IU/L, respectively.
<b>Isotype</b>	IgG2a
<b>Clonality</b>	Monoclonal
<b>Epitope</b>	Group 3
<b>Purity</b>	≥ 95 %
<b>Affinity constant</b>	$K_A = 6.6 \times 10^9$ 1/M; $K_D = 1.5 \times 10^{-10}$ M (= 0.15 nM)
<b>Associated Products</b>	Native TSH antigen 996-51
<b>Buffer</b>	0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>IEF Profile</b>	6.2-7.1
<b>Cross Reactivity</b>	TSH α 9.3 %, hCG < 0.1 %, LH 0.47 %, FSH 1.8 %
<b>Specificity</b>	Antibody recognizes human thyrotropin and its free beta subunit
<b>Shelf Life</b>	36 months
<b>References</b>	Wu, F.-B., Han, S.-Q. and He, Y.-F. (2002) Time-resolved immunofluorometry of serum hTSH with enhanced sensitivity. J. Immunoassay & Immunochem., 23(2):191-210