

PRODUCT SPECIFICATIONS

Date: 2015-02-05

PRODUCT NAME	: Anti-h TSH 5405 Fab
PRODUCT SPECIFICITY	: Antibody recognizes human Thyrotropin and its beta chain
PRODUCT CODE	: 600021
ANALYTE DESCRIPTION	: Thyroid-stimulating hormone (also known as TSH or thyrotropin) is a peptide hormone synthesized and secreted by thyrotrope cells in the anterior pituitary gland which regulates the endocrine function of the thyroid gland. TSH levels are tested in the blood of patients suspected of suffering from excess (hyperthyroidism), or deficiency (hypothyroidism) of thyroid hormone.
PRODUCT BUFFER	: 50 mM Na-citrate, pH 6.0; 0.9 % NaCl; 0.095 % NaN ₃ as preservative
STORAGE	: Store at 2-8 °C

PARAMETERS TESTED FROM EACH LOT

LOT NUMBER	:
MANUFACTURED	:
PRODUCT APPEARANCE	: Clear liquid
PRODUCT CONCENTRATION	: mg/ml (+/- 10 %)
PRODUCT ACTIVITY	: 80-120 % compared to reference in an IFMA test
PURITY	: ≥ 95 %

PROPERTIES OF THE CORRESPONDING MedixMAB MONOCLONAL ANTIBODY

ASSOCIATION CONSTANT	:	1.2 x 10 ⁶ 1/Ms
DISSOCIATION CONSTANT	:	1.9 x 10 ⁻⁴ 1/s
AFFINITY CONSTANT	:	KA = 6.6 x 10 ⁹ 1/M; KD = 1.5 x 10 ⁻¹⁰ M (0.15 nM)
CROSS-REACTIVITIES	:	TSHα 9.3 % (Scripps Laboratories Cat No T0214 Lot 308711) FSH 1.8 % (Scripps Laboratories Cat No C0614 Lot 805811) LH & hCG No cross-reactivity
EPITOPE	:	n/a

PAIR RECOMMENDATIONS	:	<table border="1"> <thead> <tr> <th>SOLID</th> <th>LABEL</th> </tr> </thead> <tbody> <tr> <td>5405</td> <td>5409</td> </tr> <tr> <td>5405</td> <td>5408</td> </tr> <tr> <td>5404</td> <td>5405</td> </tr> </tbody> </table>	SOLID	LABEL	5405	5409	5405	5408	5404	5405
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Please note that pair recommendations are based on results obtained in our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations should be taken only as a directive.

REFERENCES	:	Wu, F.-B., Han, S.-Q., and He, Y.-F. (2002) Time-resolved immunofluorometry of serum hTSH with enhanced sensitivity. J. Immunoass. Immunochem., 23(2):191-210 Wu et al. (2002) developed a three antibody assay system which utilizes clones 5403, 5404 and
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5405. Clone 5405 was used as a coated antibody and clones 5403 and 5405 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.

Legal disclaimer

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