

Monoclonal Antibody to Thyrotropin (TSH) - Aff - Purified

Alternate names:	Thyroid-stimulating hormone, hTSH
Catalog No.:	AM03068PU-N
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Thyrotropin (hTSH) promotes the growth of the thyroid gland in the neck and stimulates it to produce more thyroid hormones. hTSH is composed of two subunits - alpha and beta.
Host / Isotype:	Mouse / IgG2a
Clone:	TSH-51
Immunogen:	Human thyrotropin.
Format:	State: Liquid purified IgG fraction (> 95% pure by SDS-PAGE). Purification: Protein A affinity chromatography. Buffer System: PBS, pH 7.4 15 mM sodium azide as preservative.
Applications:	Immunocytochemistry. ELISA. RIA. This antibody TSH-51 is suitable in combination with the antibody TSH-116 (AM03069PU-N) for immunometric assays in the screening of neonatal hypothyroidism. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody TSH-51 reacts with human thyroid stimulating hormone (hTSH, thyrotropin), a glycoprotein hormone produced by the anterior pituitary gland cells in response to signals from the hypothalamus gland in the brain. The TSH-51 antibody reacts with association constant 5.5×10^{10} l/mol. Following cross-reactivity expressed as binding of labelled hormone (% of total) was determined by solid phase RIA with excess of the antibody TSH-51: hTSH (68.6), hCG (0.03), hLH (2.99), hFSH (0.66). Species: Human Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Jirkalová V, Cáp J, Straková H, Příbysová J, Plicka J, Lomský R. Immunoradiometric and luminescence immunoassay of human thyrotropin from dried blood spots for screening of neonatal hypothyroidism. Eur J Clin Chem Clin Biochem. 1996 Oct;34(10):823-7. PubMed PMID: 8933106.