

Product datasheet for **AM09311PU-N**

hCG (CGA) Mouse Monoclonal Antibody [Clone ID: TSH-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	TSH-1
Applications:	ELISA
Recommended Dilution:	ELISA: This antibody can be used as Capturer in Sandwich ELISA with our Matched anti-TSH Antibody Mouse anti Human TSH monoclonal antibody, HRP-conjugated, <i>Cat.-No</i> AM09312HR-N. The suggested capturer coating quantity is 4 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human TSH
Specificity:	This antibody is reactive to Alpha chain of Human TSH.
Formulation:	0.01M PBS, pH 7.2 without preservatives State: Aff - Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with Double distilled water to adjust the final concentration to 1.0 mg/ml.
Concentration:	1.0 mg/ml (after reconstitution)
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	glycoprotein hormones, alpha polypeptide
Database Link:	Entrez Gene 1081 Human P01215



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Background:	<p>Thyroid stimulating hormone (TSH), also known as thyrotropin, is secreted from cells in the anterior pituitary called thyrotrophs, finds its receptors on epithelial cells in the thyroid gland, and stimulates that gland to synthesize and release thyroid hormones.</p> <p>TSH is a glycoprotein hormone composed of two subunits which are non covalently bound to one another. The alpha subunit of TSH is also present in two other pituitary glycoprotein hormones, follicle stimulating hormone and luteinizing hormone, and, in primates, in the placental hormone chorionic gonadotropin. Each of these hormones also has a unique beta subunit, which provides receptor specificity. In other words, TSH is composed of alpha subunit bound to the TSH beta subunit, and TSH associates only with its own receptor. Free alpha and beta subunits have essentially no biological activity.</p> <p>TSH has a alpha subunit that is identical to the one in other glycoprotein hormones such as LH, FSH and HCG.</p>
Synonyms:	Follitropin alpha chain, Follicle-stimulating hormone alpha chain, FSH-alpha, Lutropin alpha chain, Luteinizing hormone alpha chain, LSH-alpha, LH alpha, Thyrotropin alpha chain, Thyroid-stimulating hormone alpha chain, TSH-alpha, Choriogonadotropin alpha chain, Chorionic gonadotrophin subunit alpha, hCG-alpha
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Autoimmune thyroid disease, GnRH signaling pathway, Neuroactive ligand-receptor interaction