

Product datasheet for **AM09312PU-N**

TSH beta (TSHB) Mouse Monoclonal Antibody [Clone ID: TSH-2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	TSH-2
Applications:	ELISA
Recommended Dilution:	ELISA: This antibody when conjugated with HRP <i>Cat.-No</i> AM32631HR-N can be used as Tracer in Sandwich ELISA for Human TSH detection in combination with anti-TSH Antibody <i>Cat.-No</i> AM09311PU-N (Mouse anti Human TSH monoclonal antibody, Clone TSH-1).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human TSH
Specificity:	This antibody is reactive to beta 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:	thyroid stimulating hormone beta
Database Link:	Entrez Gene 7252 Human P01222



[View online »](#)

Background:

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.

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.

TSH has a alpha subunit that is identical to the one in other glycoprotein hormones such as LH, FSH and HCG.

Synonyms:

Thyrotropin subunit beta, Thyroid-stimulating hormone subunit beta, TSH, TSHB, TSH beta