

Product datasheet for **BM2499**

TSH beta (TSHB) Mouse Monoclonal Antibody [Clone ID: 057-11003]

Product data:

Product Type:	Primary Antibodies
Clone Name:	057-11003
Applications:	ELISA
Recommended Dilution:	ELISA (capture).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	TSH purified from human pituitary gland.
Specificity:	Specific to intact TSH. Reacts with TSH through the alpha subunit/hinge region. Does not react with free beta subunit. Has limited reactivity to free alpha subunit. Cross-reactivity: TSH 100%, hCG 0.0%, LH 0.0%, FSH 0.0%.
Formulation:	10mM Phosphate pH 7.4, 150 mM Sodium Chloride and containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction (> 90% pure by SDS-PAGE).
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A.
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8°C for one month or at -20°C for longer. 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



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Background:

Thyroid stimulating hormone, also known as thyrotropin, is secreted from cells in the anterior pituitary called thyrotrophs, binds 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.

Synonyms:

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