

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat TSH β in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody shows approximately 5% cross-reactivity with recombinant human TSH β .
Source	Monoclonal Mouse IgG _{2B} Clone # 442506
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant rat TSH β Phe21-Gly138 Accession # P04652
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

TSH β is the 138 amino acid (aa), 15 kDa unique subunit of Thyroid Stimulating Hormone (TSH), which shares a common alpha subunit with other glycoprotein hormones lutropin (LH), follitropin (FSH) and chorionic gonadotropin (CG). Production of TSH by the anterior pituitary gland is stimulated by the hypothalamic peptide TRH, and inhibited by feedback from the thyroid hormones triiodothyronine (T3) and thyroxine (T4). Mature rat TSH β shares 92% and 90% aa sequence identity with mouse and human TSH β , respectively.

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