

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Rat                                                                                                                                                                                                                                                                         |
| <b>Specificity</b>        | Detects rat TSH $\beta$ in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody shows approximately 5% cross-reactivity with recombinant human TSH $\beta$ .                                                                                  |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 442506                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant rat TSH $\beta$<br>Phe21-Gly138<br>Accession # P04652                                                                                                                                                                                   |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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  $\beta$  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  $\beta$  shares 92% and 90% aa sequence identity with mouse and human TSH  $\beta$ , respectively.

## PRODUCT SPECIFIC NOTICES

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