

DESCRIPTION

Species Reactivity	Human
Specificity	Detects TSH β in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant rat TSH β was observed.
Source	Monoclonal Mouse IgG ₁ Clone # 512908
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human TSH β Phe21-Val138 Accession # NP_000540
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.
Immunohistochemistry	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 human TSH β shares 89% and 90% aa sequence identity with mouse and rat TSH β , respectively.

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