

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TSH R in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 484405
Purification	Protein A or G purified from ascites
Immunogen	NS0 mouse myeloma cell line transfected with human TSH R Accession # P16473
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
ELISA	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

Thyroid stimulating hormone receptor (TSH R; also thyrotropin receptor) is an 85 kDa (unglycosylated) member of the G-protein coupled receptor 1 family. Human TSH R is synthesized as a 764 amino acid (aa) precursor that contains a 20 aa signal sequence, a 393 aa extracellular domain (ECD), a 269 aa membrane spanning domain consisting of seven transmembrane segments, and an 82 aa cytoplasmic domain. The ECD contains six leucine-rich repeats (LRR) and six potential sites of N-linked glycosylation. There are two isoforms, long and short, produced by a splicing variant corresponding to aa 253-764 in the long isoform that is missing in the short isoform. Human TSH R is 86-87% aa identical to mouse and rat TSH R. TSH R is the receptor for thyroid stimulating hormone, which plays a central role in controlling thyroid cell metabolism.

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