

Human TSHR Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 484404 Catalog Number: FAB65342R 100 µg

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human TSHR in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 484404
Purification	Protein A or G purified from ascites
Immunogen	NS0 mouse myeloma cell line transfected with human TSHR Accession # P16473
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.				
	Recommended Concentration	Sample		
Flow Cytometry	0.25-1 μg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Human TSH R and eGFP		

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.

PRODUCT SPECIFIC NOTICES

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