

ARG22815 anti-TSHR / TSH Receptor antibody [2C11]

Package: 100 µg

Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [2C11] recognizes TSHR / TSH Receptor Mouse anti Human thyroid stimulating hormone receptor antibody, clone 2C11 recognizes the human thyroid stimulating hormone receptor (TSHR) otherwise known as the thyrotropin receptor. TSHR is an important molecule in controlling the growth and function of the normal thyroid. Mouse anti Human thyroid stimulating receptor antibody recognises both native and denatured TSH receptor (binding to an epitope at the carboxy terminus between amino acids 354 and 359). It does inhibit binding of TSH. No cross reactivity has been observed with related LH and FSH receptors. Clone 2C11 recognises the mutant TSH receptor known as I167N as well as the wild type molecule (Costagliola et al. 1998)
Tested Reactivity	Hu
Tested Application	ELISA, FACS, IHC-P, IP, WB
Host	Mouse
Clonality	Monoclonal
Clone	2C11
Isotype	IgG1
Target Name	TSHR / TSH Receptor
Species	Human
Immunogen	Recombinant Human TSH receptor.
Conjugation	Un-conjugated
Alternate Names	LGR3; TSH-R; CHNG1; Thyrotropin receptor; Thyroid-stimulating hormone receptor; hTSHR-I

Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	FACS	Assay-dependent
	IHC-P	Assay-dependent
	IP	5 - 10 µg/ml
	WB	5 - 10 µg/ml
	Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% Sodium azide

Preservative	0.09% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	TSHR
Gene Full Name	thyroid stimulating hormone receptor
Background	The protein encoded by this gene is a membrane protein and a major controller of thyroid cell metabolism. The encoded protein is a receptor for thyrothropin and thyrostimulin, and its activity is mediated by adenylate cyclase. Defects in this gene are a cause of several types of hyperthyroidism. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]
Function	Receptor for thyrothropin. Plays a central role in controlling thyroid cell metabolism. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. Also acts as a receptor for thyrostimulin (GPA2+GPB5). [UniProt]
Calculated Mw	87 kDa
PTM	Glycosylated. Sulfated. Sulfation on Tyr-385 plays a role in thyrotropin receptor binding and activation.