

Datasheet: MCA1571T BATCH NUMBER 151042

Description:	MOUSE ANTI HUMAN THYROID STIMULATING HORMONE RECEPTOR
Specificity:	THYROID STIMULATING HORMONE RECEPTOR
Other names:	THYROTROPIN RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	4C1
Isotype:	IgG2a
Quantity:	20 μg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				1/100 - 1/1000
Immunohistology - Frozen				
Immunohistology - Paraffin	•			1/1000 - 1/2000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human	
Product Form	Purified IgG - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein G supernatant	From tissue culture
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide	
Carrier Free	Yes	

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml			
Immunogen	External domain of human TSH receptor.			
External Database Links	UniProt: P16473 Related reagents Entrez Gene: 7253 TSHR Related reagents			
Synonyms	LGR3			
RRID	AB_2303782			
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the NS1/Ag4.1 myeloma cell line.			
Specificity	Mouse anti Human thyroid stimulating hormone receptor, clone 4C1 recognizes the human thyroid stimulating hormone receptor (hTSHR), otherwise known as the thyrotropin receptor. Mouse anti Human thyroid stimulating hormone receptor, clone 4C1 binds to an extracellular domain of hTSHR.			
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.			
Immunohistology	This product does not require protein digestion pre-treatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.			
Histology Positive Control Tissue	Thyroid gland			
References	1. Suh, J.M. <i>et al.</i> (2003) Regulation of the phosphatidylinositol 3-kinase, Akt/protein kinase B, FRAP/mammalian target of rapamycin, and ribosomal S6 kinase 1 signaling pathways by thyroid-stimulating hormone (TSH) and stimulating type TSH receptor antibodies in the thyroid gland. J Biol Chem. 278 (24): 21960-71. 2. Kleinau, G. <i>et al.</i> (2011) From Molecular Details of the Interplay between Transmembrane Helices of the Thyrotropin Receptor to General Aspects of Signal Transduction in Family A G-protein-coupled Receptors (GPCRs). J Biol Chem. 286: 25859-71. 3. Shepherd PS, <i>et al.</i> (1999) Identification of an important thyrotrophin binding site on the human thyrotrophin receptor using monoclonal antibodies. Mol Cell Endocrinol.149:197-206. 4. Oba, J. <i>et al.</i> (2017) Trends in hepatocyte growth factor, insulin-like growth factor 1, thyroid-stimulating hormone, and leptin expression levels in uveal melanoma patient serum and tumor tissues: correlation to disease progression. Melanoma Res. 27 (2): 126-33.			

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we

 Guarantee
 12 months from date of despatch

 Health And Safety Information
 Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1571T 10040

 Regulatory
 For research purposes only

recommend microcentrifugation before use.

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)

Goat Anti Mouse IgG IgA IgM (STAR87...)

RPE

Goat Anti Mouse IgG (STAR76...)

RPE

Goat Anti Mouse IgG (STAR70...)

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR9...) FITC

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Rabbit Anti Mouse IgG (STAR13...) HRP

Email: antibody_sales_us@bio-rad.com

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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America Fax: +1 919 878 3751

Worldwide

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Email: antibody_sales_de@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M365487:200529'

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