

# Datasheet: MCA1571 BATCH NUMBER 161432

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:	lgG2a
Quantity:	0.2 mg

## **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

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

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 A supernatant	A from tissue culture
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> )	

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_2272242	
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cel myeloma cell line.	ls of the NS1/Ag4.1
Specificity	Mouse anti Human thyroid stimulating hormone receptor, human thyroid stimulating hormone receptor (hTSHR), otherwireceptor. Mouse anti Human thyroid stimulating hormone receptor extracellular domain of hTSHR.	se known as the thyrotropin
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in	100ul.
Immunohistology	This product does not require protein digestion pre-treatment of product does not require antigen retrieval using heat treatment sections.	·
Histology Positive Control Tissue	Thyroid gland	
References	1. Suh, J.M. <i>et al.</i> (2003) Regulation of the phosphatidylinosito kinase B, FRAP/mammalian target of rapamycin, and ribosoma pathways by thyroid-stimulating hormone (TSH) and stimulating antibodies in the thyroid gland. J Biol Chem. 278 (24): 21960-72. Kleinau, G. <i>et al.</i> (2011) From Molecular Details of the Interpretare Transmembrane Helices of the Thyrotropin Receptor to General Transduction in Family A G-protein-coupled Receptors (GPCR 25859-71.  3. Shepherd PS, <i>et al.</i> (1999) Identification of an important thyrothyman thyrotrophin receptor using monoclonal antibodies. Mol Endocrinol.149:197-206.  4. Oba, J. <i>et al.</i> (2017) Trends in hepatocyte growth factor, institutyroid-stimulating hormone, and leptin expression levels in uveserum and tumor tissues: correlation to disease progression.	al S6 kinase 1 signaling g type TSH receptor 71. blay between al Aspects of Signal s). J Biol Chem. 286: otrophin binding site on the Cell ulin-like growth factor 1, eal melanoma patient

### 126-33.

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in

frost-free freezers is not recommended.

**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/MCA1571

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**Regulatory** For research purposes only

# **Related Products**

## **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12...) RPE

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

Goat Anti Mouse IgG (STAR76...) RPE

Goat Anti Mouse IgG (STAR70...) FITC

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

## **Recommended Negative Controls**

## MOUSE IgG2a NEGATIVE CONTROL (MCA929)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M381702:210512'

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