

Datasheet: MCA1281

BATCH NUMBER 171030

Description:	MOUSE ANTI HUMAN THYROID STIMULATING HORMONE RECEPTOR
Specificity:	THYROID STIMULATING HORMONE RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2C11
Isotype:	IgG1
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen		▪		
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation	▪			5ug/ml - 10ug/ml
Western Blotting	▪			5ug/ml - 10ug/ml
Functional Assays (1)			▪	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

(1)Removal of Sodium Azide is recommended prior to use in functional assays.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant Human TSH receptor.
External Database Links	<p>UniProt: P16473 Related reagents</p> <p>Entrez Gene: 7253 TSHR Related reagents</p>
Synonyms	LGR3
RRID	AB_2208261
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the NS1/Ag4.1 mouse myeloma cell line.
Specificity	<p>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.</p> <p>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.</p> <p>Mouse anti Human thyroid stimulating hormone receptor antibody, clone 2C11 recognizes the mutant TSH receptor known as I167N as well as the wild type molecule (Costagliola et al. 1998)</p>
References	<ol style="list-style-type: none"> 1. Costagliola, S. <i>et al.</i> (1998) Genetic immunization against the human thyrotropin receptor causes thyroiditis and allows production of monoclonal antibodies recognizing the native receptor. J Immunol. 160 (3): 1458-65. 2. 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 (1-2): 197-206. 3. Akamizu, T. <i>et al.</i> (1999) Characterization of recombinant monoclonal antithyrotropin receptor antibodies (TSHRAbs) derived from lymphocytes of patients with Graves' disease: epitope and binding study of two stimulatory TSHRAbs. Endocrinology. 140 (4): 1594-601. 4. Chen, C.R. <i>et al.</i> (2001) A full biological response to autoantibodies in Graves' disease requires a disulfide-bonded loop in the thyrotropin receptor N terminus homologous to a laminin epidermal growth factor-like domain. J Biol Chem. 276 (18): 14767-72.

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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

Material Safety Datasheet documentation #10040 available at:

Information <https://www.bio-rad-antibodies.com/SDS/MCA1281>

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
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
"M409053:221017"

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