

Datasheet: MCA2653T

Description:	RAT ANTI HUMAN CD137
Specificity:	CD137
Other names:	4-1BB LIGAND RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	JG1.6A
Isotype:	IgG2a
Quantity:	25 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	■			
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			
Immunoprecipitation			■	
Western Blotting			■	

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.

Target Species	Human
Species Cross Reactivity	Reacts with: Cynomolgus monkey N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Recombinant human CD137-Fc.

**External Database
Links**

UniProt:

[Q07011](#) [Related reagents](#)

Entrez Gene:

[3604](#) TNFRSF9 [Related reagents](#)

Synonyms

CD137, ILA

Fusion Partners

Lymph node cells from immunised Lou rat were fused with cells of the mouse NS-1 myeloma cell line.

Specificity

Rat anti Human CD137 antibody, clone JG1.6A recognizes human CD137, an 83kD type I integral membrane protein, otherwise known as 4-1BB. The CD137 molecule is primarily expressed on activated T-cells. It is a costimulatory member of the tumour necrosis receptor family and is reported to regulate T-cell activation and proliferation.

Rat anti Human CD137 antibody, clone JG1.6A has been reported for use in functional studies.

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

Further Reading

1. Pollok, K.E. *et al.* (1993) Inducible T cell antigen 4-1BB. Analysis of expression and function. [J Immunol. 150 \(3\): 771-81.](#)
2. Alderson, M.R. *et al.* (1994) Molecular and biological characterization of human 4-1BB and its ligand. [Eur J Immunol. 24 \(9\): 2219-27.](#)
3. Schwarz, H. *et al.* (1997) CD137, a member of the tumor necrosis factor receptor family, is located on chromosome 1p36, in a cluster of related genes, and colocalizes with several malignancies. [Biochem Biophys Res Commun. 235 \(3\): 699-703.](#)
4. Cannons, J.L. *et al.* (2001) 4-1BB ligand induces cell division, sustains survival, and enhances effector function of CD4 and CD8 T cells with similar efficacy. [J Immunol. 167 \(3\): 1313-24.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)

[FITC](#)

Rabbit Anti Rat IgG (STAR16...)

[DyLight®800](#)

Goat Anti Rat IgG (STAR73...)

[RPE](#)

Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Rabbit Anti Rat IgG (STAR20...)	RPE
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR72...)	HRP

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