

Datasheet: MCA484G

Description:	RAT ANTI HUMAN CD4
Specificity:	CD4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	YNB46.1.8
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	▪			1/100 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein	IgG concentration 1 mg/ml

Concentrations

Immunogen Rat cells transfected with human CD4.

External Database Links

UniProt:

[P01730](#) [Related reagents](#)

Entrez Gene:

[920](#) CD4 [Related reagents](#)

RRID AB_324142

Fusion Partners Spleen cells from immunised PVG-RT1u rats were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line.

Specificity **Rat anti Human CD4 antibody, clone YNB46.1.8** recognizes the human CD4 cell surface antigen, a 55 kDa molecule expressed by helper T lymphocytes and by monocytes.

Rat anti Human CD4 antibody, clone YNB46.1.8 blocks syncytia formation of U937 cells infected with HIV.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Hirbod, T. *et al.* (2010) Abundant expression of HIV target cells and C-type lectin receptors in the foreskin tissue of young Kenyan men. [Am J Pathol. 176: 2798-805.](#)
 2. Yawalkar, N. *et al.* (2000) T cells isolated from positive epicutaneous test reactions to amoxicillin and ceftriaxone are drug specific and cytotoxic. [J Invest Dermatol. 115 \(4\): 647-52.](#)
 3. Markovic, I. *et al.* (2004) Thiol/disulfide exchange is a prerequisite for CXCR4-tropic HIV-1 envelope-mediated T-cell fusion during viral entry. [Blood. 103 \(5\): 1586-94.](#)
 4. Hirbod, T. *et al.* (2011) *In situ* distribution of HIV-binding CCR5 and C-type lectin receptors in the human endocervical mucosa. [PLoS One. 6 \(9\): e25551.](#)
 5. Op De Beeck, A. *et al.* (2004) The transmembrane domains of the prM and E proteins of yellow fever virus are endoplasmic reticulum localization signals. [J Virol. 78 \(22\): 12591-602.](#)
 6. Yawalkar, N. *et al.* (2001) A comparative study of the expression of cytotoxic proteins in allergic contact dermatitis and psoriasis: spongiotic skin lesions in allergic contact dermatitis are highly infiltrated by T cells expressing perforin and granzyme B. [Am J Pathol. 158 \(3\): 803-8.](#)
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Storage Store at +4°C or at -20°C if preferred.

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.

Guarantee 18 months from date of despatch.

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

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@800
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL \(MCA6004GA\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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