

Datasheet: MCA4755

Description:	MOUSE ANTI HUMAN CD205
Specificity:	CD205
Other names:	DEC205
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	HD30
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	▪			1/10 - 1/200
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: Monkey

Does not react with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture

supernatant

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide (NaN₃)
Stabilisers 1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Purified extracellular domain of human CD205-IgG1 Fc fusion protein.

External Database Links

UniProt:

[O60449](#)

[Related reagents](#)

Entrez Gene:

[4065](#)

LY75

[Related reagents](#)

Synonyms CD205, CLEC13B

RRID AB_2137648

Fusion Partners Spleen cells from immunised mice were fused with cells of the mouse SP2/0-Ag14 myeloma cell line.

Specificity **Mouse anti Human CD205 antibody, clone HD30** recognizes human Lymphocyte antigen 75, otherwise known as CD205, DEC205, C-type lectin domain family 13 member B or gp200-MR6. CD205 is a 1695 amino acid ~205 kDa single pass type I transmembrane glycoprotein and member of the macrophage mannose receptor family of C-type lectins, predominantly expressed by human dendritic cells.

CD205 is a recycled endocytic receptor involved in directing antigen uptake for processing and presentation by MHC class I. Multiple isoforms of human CD205, generated by alternative splicing have been described. Mouse anti Human CD205 antibody, clone HD30 recognizes the canonical isoform 4, reactivity with other isoforms has not been evaluated but both isoforms 2 and 3 contain most of the immunogen sequence used to generate clone HD30 making reactivity likely. However the antibody is not expected to be reactive with isoforms 1 and 5 which lack the immunogen sequence ([UniProt : 060449](#)).

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

Histology Positive Control Tissue Human or monkey spleen and lymph node.

References 1. Park, C.G. *et al.* (2012) Generation of anti-human DEC205/CD205 monoclonal antibodies that recognize epitopes conserved in different mammals. [J Immunol Methods. 377 \(1-2\): 15-22.](#)

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 #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
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 (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

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

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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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