Datasheet: MCA4755PE

Description:	MOUSE ANTI HUMAN CD205:RPE
Specificity:	CD205
Other names:	DEC205
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	HD30
Isotype:	IgG1
Quantity:	100 TESTS

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	▪			Neat - 1/10

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 conjugated to R. Phycoerythrin (RPE) - lyophilized

Reconstitution

Reconstitute with 1ml distilled water

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578

Preparation

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

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3) 1% Bovine Serum Albumin
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_10851522
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 10^6 cells in 100ul.
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	Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch

Health And Safety Information	Material Safety Datasheet documentation #20487 available at: 20487: https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

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