

Mouse anti-Human CD205 Monoclonal Antibody | anti-CD205 antibody

Anti-Hu CD205 APC

CATALOG # AAA129131	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD205; Monoclonal Antibody; Anti-Hu CD205 APC; DEC-205; LY75; CLEC13B; lymphocyte antigen 75; anti-CD205 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1 kappa
Clone Number	HD30
Specificity	The mouse monoclonal antibody HD30 recognizes an extracellular epitope of CD205, an approx. 200kDa C-type lectin transmembrane protein of the MMR (macrophage mannose receptor) family, expressed at high levels on dendritic cells and thymic epithelial cells, and at low levels on lymphocytes, NK cells and monocytes.
Purity/Purification	The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide
Applicable Applications for anti-CD205 antibody	FCM/FACS (Flow Cytometry)
Conjugation	APC
Immunogen	Recombinant Fc-tagged human CD205
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

ADDITIONAL INFORMATION

Related Product Information for anti-CD205 antibody	CD205, also known as DEC-205, is an endocytic receptor of macrophage mannose receptor family. This 205kDa C-type lectin transmembrane protein mediates adsorptive uptake and its intracellular domain contains coated pit localization sequence and distal acidic motif, which is required for recycling beyond early endosomes through deeper MHC II+ late endosomes and lysosomes. This unique pathway of receptor-mediated uptake proves to be necessary for presentation of antigenic peptides at low doses of ligand. CD205 is responsible for uptake and processing of captured antigens for dendritic cells.
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References	*Park CG, Rodriguez A, Ueta H, Lee H, Pack M, Matsuno K, Steinman RM: Generation of anti-human DEC205/CD205 monoclonal antibodies that recognize epitopes conserved in different mammals. 2012 Mar 30;377(1-2):15-22., URL: http://www.ncbi.nlm.nih.gov/pubmed/22273672 *Mahnke K, Guo M, Lee S, Sepulveda H, Swain SL, Nussenzweig M, Steinman RM: The dendritic cell receptor for endocytosis, DEC-205, can recycle and enhance antigen presentation via major histocompatibility complex class II-positive lysosomal compartments. J Cell Biol. 2000 Oct 30;151(3):673-84., URL: http://www.ncbi.nlm.nih.gov/pubmed/11062267,*Guo M, Gong S, Maric S, Misulovin Z, Pack M, Mahnke K, Nussenzweig MC, Steinman RM: A monoclonal antibody to the DEC-205 endocytosis receptor on human dendritic cells. Hum Immunol. 2000 Aug;61(8):729-38., URL: http://www.ncbi.nlm.nih.gov/pubmed/10980384,*Gurer C, Strowig T, Brilot F, Pack M, Trumpfheller C, Arrey F, Park CG, Steinman RM, Münz C: Targeting the nuclear antigen 1 of Epstein-Barr virus to the human endocytic receptor DEC-205 stimulates protective T-cell responses. Blood. 2008 Aug 15;112(4):1231-9., URL: https://www.ncbi.nlm.nih.gov/pubmed/18519810
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NCBI AND UNIPROT INFORMATION

NCBI GI #	311771583
NCBI GeneID	100526664
NCBI Accession #	NP_001185688.1
NCBI GenBank Nucleotide #	NM_001198759.1
UniProt Accession #	O60449 ; O75913 ; Q53R46 ; Q53TF5 ; Q7Z575 ; Q7Z577
Molecular Weight	198,311 Da
NCBI Official Full Name	LY75-CD302 fusion protein isoform 1
NCBI Official Synonym Full Names	LY75-CD302 readthrough
NCBI Official Symbol	LY75-CD302
NCBI Protein Information	LY75-CD302 fusion protein; DEC-205/DCL-1 fusion
UniProt Protein Name	Lymphocyte antigen 75
UniProt Gene Name	LY75
UniProt Synonym Gene Names	CD205; CLEC13B; Ly-75
UniProt Entry Name	LY75_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd205-antibody-clone-hd30-flow-cytometry-elisa/129131>