

CD2 recombinant antibody

Anti-CD2 [YTH 655]

CATALOG # AAA72014	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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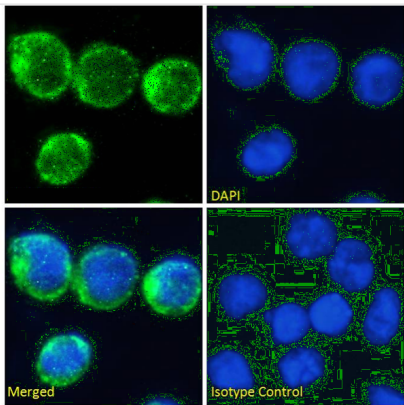
PRODUCT SYNONYMS

CD2; Monoclonal Recombinant Antibody; Anti-CD2 [YTH 655]; LFA-2; T-cell surface antigen CD2; Erythrocyte receptor; LFA-3 receptor; Rosette receptor; T-cell surface antigen T11/Leu-5; CD2 recombinant antibody

PRODUCT SPECIFICATIONS

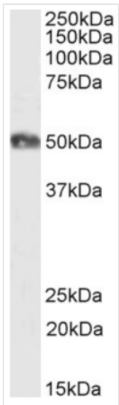
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG kappa
Clone Number	YTH 655
Specificity	This antibody specifically recognizes human CD2, a cell adhesion molecule found on the surface of T cells and natural killer (NK) cells.
Purity/Purification	Protein A Affinity Purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Sequence Length	351
Applicable Applications for CD2 recombinant antibody	Invivo Depletion, FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Antibody Species	Rabbit
Original Species Name	Rat
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2b format, for improved compatibility with existing reagents, assays and techniques.
Buffer Composition	PBS only with 0.02% Proclin 300.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of fixed Molt4 cells with anti-CD2 antibody YTH 655. Immunofluorescence analysis of paraformaldehyde fixed Molt4 cells on Shi-fix coverslips, permeabilized with 0.15% Triton and stained with the chimeric rabbit IgG version of YTH 655 (AAA72014) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing membrane, and some cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72014, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.



WB (Western Blot)

Western Blot using anti-CD2 antibody YTH 655 Human tonsil lysate samples (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of YTH 655 (AAA72014) at 1 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected running size for unmodified CD2 is 39.5kDa, but this protein is glycosylated at several residues. AAA72014 successfully detected CD2 in human tonsil lysate.

ADDITIONAL INFORMATION

Related Product Information for CD2 recombinant antibody	Recombinant monoclonal antibody to CD2. Manufactured using the recombinant platform with variable regions (i.e. specificity) from the hybridoma YTH 655.
Product Categories/Family for CD2 recombinant antibody	Immunology; Celladhesion
References	Qin S, Cobbold SP, Pope H, Elliott J, Kioussis D, Davies J, Waldmann H. "Infectious" transplantation tolerance. Science. 1993 Feb 12;259(5097):974-7. PMID:8094901 Original Published Journal: Science. 1993 Feb 12;259(5097):974-7. Publication Note: Describes it's use in vivo (human CD2+/CBA transgenic mice) - including Flow-Cytometry data.

NCBI AND UNIPROT INFORMATION

NCBI GI #	156071472
NCBI GeneID	914
NCBI Accession #	NP_001758.2
NCBI GenBank Nucleotide #	NP_001758.2
UniProt Accession #	P06729
NCBI Official Full Name	T-cell surface antigen CD2 isoform 2
NCBI Official Synonym Full Names	CD2 molecule
NCBI Official Symbol	CD2
NCBI Official Synonym Symbols	T11; SRBC; LFA-2
NCBI Protein Information	T-cell surface antigen CD2
UniProt Protein Name	T-cell surface antigen CD2
UniProt Gene Name	CD2
UniProt Synonym Gene Names	SRBC

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/cd2-recombinant-antibody-clone-yth-655-flow-cytometry-elisa/72014>