

CD7 recombinant antibody

Anti-CD7 [3A1E]

CATALOG # AAA71985	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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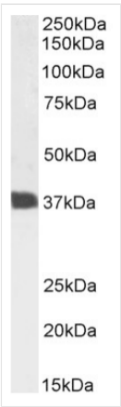
PRODUCT SYNONYMS

CD7; Monoclonal Recombinant Antibody; Anti-CD7 [3A1E]; T-cell antigen CD7; GP40; T-cell leukemia antigen; T-cell surface antigen Leu-9; TP41; CD7 recombinant antibody

PRODUCT SPECIFICATIONS

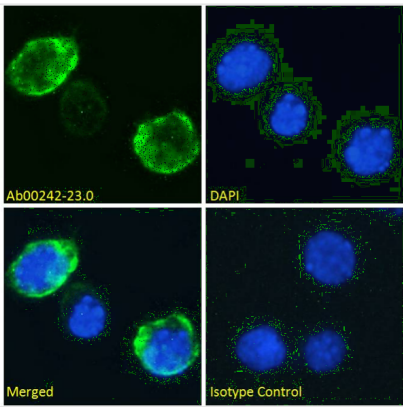
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG, Kappa
Clone Number	3A1E
Specificity	Recognizes human CD7.
Purity/Purification	Protein A Affinity Purified
Concentration	1 mg/ml (varies by lot)
Sequence Length	240
Applicable Applications for CD7 recombinant antibody	FCM/FACS (Flow Cytometry)
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original murine IgG2b format, for improved compatibility with existing reagents, assays and techniques.
Buffer Composition	PBS only with 0.02% Proclin 300.
Labeled Substance	None
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



WB (Western Blot)

Western Blot using anti-CD7 antibody 3A1E Jurkat cell lysate samples (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of 3A1E 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 CD7 is 25.4kDa, but this protein is glycosylated at several residues. successfully detected CD7 in Jurkat cell lysate.



IF (Immunofluorescence)

Immunofluorescence staining of fixed Jurkat cells with anti-CD7 antibody 3A1E. Immunofluorescence analysis of paraformaldehyde fixed Jurkat cells on Shi-fix coverslips, permeabilized with 0.15% Triton and stained with the chimeric rabbit IgG version of 3A1E at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for CD7 recombinant antibody	Recombinant monoclonal antibody to CD7. Manufactured using a proprietary Recombinant Platform with variable regions (i.e. specificity) from the hybridoma 3A1E.
Product Categories/Family for CD7 recombinant antibody	Immunology
References	Jansen et al. Successful treatment of human acute T-cell leukemia in SCID mice using the anti-CD7-deglycosylated ricin A-chain immunotoxin DA7. Cancer Res. 1992 Mar 1; 52(5):1314-21. PMID:1371092

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453613
NCBI GeneID	924
NCBI Accession #	NP_006128.1
NCBI GenBank Nucleotide #	NM_006137.7
UniProt Accession #	P09564
Molecular Weight	25,409 Da
NCBI Official Full Name	T-cell antigen CD7
NCBI Official Synonym Full Names	CD7 molecule
NCBI Official Symbol	CD7
NCBI Official Synonym Symbols	GP40; TP41; Tp40; LEU-9
NCBI Protein Information	T-cell antigen CD7
UniProt Protein Name	T-cell antigen CD7
UniProt Gene Name	CD7

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.

