

Mouse anti-Human CD7 Monoclonal Antibody | anti-CD7 antibody

anti-human CD7-R-PE

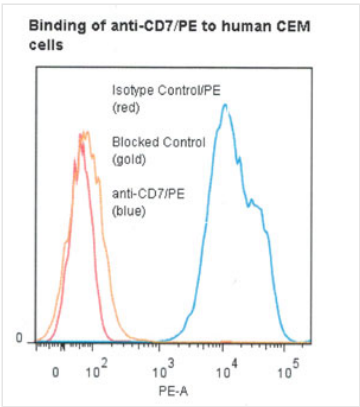
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78161	Mouse	Human	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD7; Monoclonal Antibody; anti-human CD7-R-PE; Monoclonal anti-human CD7/R-PE; anti-CD7 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	3A1E
Form/Format	50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN ₃ (as a preservative).
Sequence Length	240
Applicable Applications for anti-CD7 antibody	FCM/FACS (Flow Cytometry)
Performance	Briefly, 5×10^5 cultured CEM human tumor cells were washed and incubated 45 minutes on ice with 80 ul of product at a 1:50 dilution (10 ug/ml). Cells were washed twice, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.59 log ₁₀ fluorescent units when compared to a Mouse IgG2b/R-PE negative control at a similar concentration.
Production	Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at 0.5 mg/ml.
Immunogen	Human HSB2-T cells
Preparation and Storage	Store at 2 - 5 degree C. Do not freeze! Protect from light. Product should retain activity for at least 12 months after shipping date when stored as recommended.



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CD7 antibody	Human CD7 is one of the earliest T lineage markers and is found on most thymocytes and peripheral blood T cells. The function of CD7 is not yet fully known, although cross-linking of CD7 with antibodies induces a T cell transmembrane calcium flux and CD7 expression is induced by ionomycin. Antibody 3 Ale recognizes a CD7 molecule of 40 kd. Antibody 3Ale induces T cell transmembrane calcium flux.
References	R. Ware, et al, J Immunol (1989) 143: 3632-3634. R. Ware, et al, J Immunol (1991) 147: 2787-2794.

NCBI AND UNIPROT INFORMATION

NCBI GI #	180164
NCBI GeneID	924
NCBI Official Full Name	CD7 antigen protein
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; p41 protein; CD7 antigen (p41); T-cell leukemia antigen; T-cell surface antigen Leu-9
UniProt Protein Name	T-cell antigen CD7
UniProt Gene Name	CD7
UniProt Entry Name	CD7_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://stage.aaabiotech.com/monoclonal/cd7-antibody-clone-3a1e-flow-cytometry-elisa/78161>