

## CD7 Antibody [clone T3-3A1] (V2966)

Catalog No.	Formulation	Size
V2966-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2966-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2966SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

 [Citations \(9\)](#)
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<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	T3-3A1
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P09564
<b>Localization</b>	Cell surface
<b>Applications</b>	Flow Cytometry : 0.5-1ug/10 <sup>6</sup> cells Immunofluorescence : 0.5-1ug/ml
<b>Limitations</b>	This CD7 antibody is available for research use only.



## Description

Recognizes a protein of 40kDa, identified as CD7, a member of the immunoglobulin gene superfamily. Its N-terminal amino acids 1-107 are highly homologous to Ig kappa-L chains whereas the carboxyl-terminal region of the extracellular domain is proline-rich and has been postulated to form a stalk from which the Ig domain projects. CD7 is expressed on the majority of immature and mature T-lymphocytes, and T cell leukemia. It is also found on natural killer cells, a small subpopulation of normal B cells and on malignant B cells. Cross-linking surface CD7 positively modulates T cell and NK cell activity as measured by calcium fluxes, expression of adhesion molecules, cytokine secretion and proliferation. CD7 associates directly with phosphoinositol 3'-kinase. CD7 ligation induces production of D-3 phosphoinositides and tyrosine phosphorylation.

## Application Notes

Optimal dilution of the CD7 antibody should be determined by the researcher.

## Immunogen

Human T cells were used as the immunogen for the CD7 antibody.

## Storage

Store the CD7 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).