

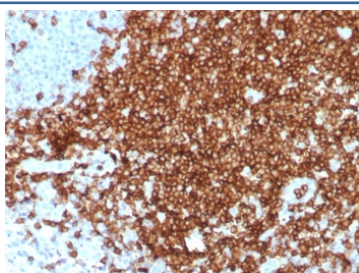
## Recombinant CD7 Antibody [clone CD7/8496R] (V4558)

Catalog No.	Formulation	Size
V4558-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4558-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4558SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

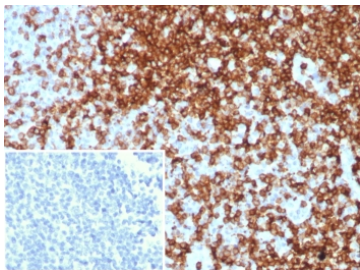
Recombinant **RABBIT MONOCLONAL**

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<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Recombinant Rabbit Monoclonal
<b>Isotype</b>	Rabbit IgG, kappa
<b>Clone Name</b>	CD7/8496R
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P09564
<b>Localization</b>	Cell Surface
<b>Applications</b>	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This recombinant CD7 antibody is available for research use only.



IHC staining of FFPE human tonsil tissue with recombinant CD7 antibody (clone CD7/8496R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human tonsil tissue with recombinant CD7 antibody (clone CD7/8496R). Inset: PBS used in place of primary Ab (secondary Ab negative control).  
HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

## Description

Recognizes a protein of 40kDa, identified as CD7 (also known as gp40, Leu9). CD7 is 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 recombinant CD7 antibody should be determined by the researcher.

## Immunogen

A recombinant partial protein sequence (within amino acids 72-175) from the human protein was used as the immunogen for the recombinant CD7 antibody.

## Storage

Aliquot the recombinant CD7 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.