



Anti-Cd7 polyclonal antibody (CPB-020RM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit Anti-Cd7 Polyclonal Antibody
Antigen Description	T-cell antigen CD7, also known as T-cell surface antigen Leu-9, and Cd7, is a single-pass type I membrane protein. It is expressed on human T and NK cells, as well as on cells in the early stages of T, B, and myeloid cell differentiation. Cd7 is a T cell-associated antigen which appears early in ontogeny and persists on circulating T cells. It appears to have a significant role in T cell development and function. The precise mechanism by which this molecule mediates its effect is not known. Cd7-mediated signals appear to augment function of adhesion molecules on NK cells, which may be involved in NK cell activation by providing both anchorage and costimulatory triggering. The Cd7 molecule is a differentiation antigen found on the surface of T lymphocytes and also on a very minor fraction of acute nonlymphocytic leukemia (ANLL). Cd7 is highly expressed on malignant immature T cells and is generally absent on malignant mature T cells, such as CD4+ Sezary leukemia and HTLV-1+ adult T-cell leukemia cells. Studies in Cd7-deficient mice have provided insights into Cd7 function, and demonstrated key roles for Cd7 in regulating peripheral T and NK cell cytokine production and sensitivity to LPS-induced shock syndromes.
Specificity	MouseCd7 / LEU9.
Target	Cd7
Immunogen	Recombinant mouseCd7 protein.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	N/A
Conjugate	Unconjugated
Preparation	Produced in rabbits immunized with purified, human cell-derived, recombinant mouseCd7 /

LEU9 extracellular domain (rMCd7; Met 1-Pro 150). Cd7 specific IgG was purified by mouse Cd7 affinity chromatography.

Format	0.2µmfiltered solution in PBS with 5% trehalose.
Size	50 µg
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Cd7 CD7 antigen [Mus musculus]
Official Symbol	Cd7
Synonyms	CD7; CD7 antigen; T-cell antigen CD7;
Entrez Gene ID	12516
Protein Refseq	NP_033984
Pathway	Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;
Function	receptor activity;