

# CD7 (ZR416)

## Rabbit Monoclonal Antibody

**Host:** Rabbit  
**Specificity:** Human  
**Immunogen:** Recombinant fragment (around aa 72-175) of human CD7 protein  
**Ig Class:** IgG  
**Storage:** Store at 2-8°C for up to 2 years for concentrate form and 18 months for predilute form.

**Specifications:** CD7 (ZR416) Rabbit Monoclonal primary antibody detects CD7 protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended. Detection method: Polymer anti-mouse/rabbit Ig detection system. Working dilution: 1:100-200. Positive Control: sample known to contain CD7 protein.

**Localization:** Membrane.

**Intended Use:** Research Use Only (RUO). This antibody is not for diagnostic use.

**Description:** Recognizes a protein of 40 kDa, 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 by the majority of immature and mature T-lymphocytes, and T cell leukemia. It is also expressed by natural killer cells, a small subpopulation of normal B cells and by malignant B cells. Cross-linking surface CD7 positively modulates T cell and NK cell activity as measured by calcium influxes, 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.

**Supplied As:** Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

### References:

1. Stillwell R, et al. Immunol Res. 2001; 24:31-52.
2. Schanberg LE, et al. Proc Natl Acad Sci USA. 1991; 88:603-7.
3. Chabannon C, et al. J Immunol. 1992; 149:2110-3.

**REF** Z2772RL/ Z2772RS/ Z2772RT/ Z2772RP (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)



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