

CD7 clone EP132

Instructions for Use

Specification:

CD7 antigen is a cell surface glycoprotein of 40 kD expressed on the surface of immature and mature T-cells as well as natural Killer (NK) cells. It is a member of the immunoglobulin gene superfamily and is the first T-cell lineage associated antigen to appear in T-cell ontogeny, being expressed in T-cell precursors (preceding CD2 expression), and in myeloid precursors, in fetal liver and bone marrow, and persisting in circulating mature T-cells. While its precise function is not known, it is suggested that the molecule functions as an Fc receptor for IgM. CD7 is the most consistently expressed T-cell antigen in lymphoblastic lymphomas/ leukemias and is therefore anti-CD7 is a useful marker in the identification of such neoplastic proliferations. In mature post-thymic T-cell neoplasms, CD7 is the most common pan-T antigen to be aberrantly expressed, which is a useful pointer to a neoplastic T-cell process.^{2,3} CD7 has been shown to be immunoexpressed in 85% of mature peripheral T-cells, the majority of post-thymic T-cells, NK cells, T-cell lymphoblastic leukemia/lymphoma, acute myeloid leukemia, and chronic myelogenous leukemia, CD7 is conspicuously absent in adult T-cell leukemia/lymphoma and is not expressed in mycosis fungoides.¹⁻³

Availability:

Catalog No.	Contents	Volume
ILM3007-C01	CD7	0,1 ml concentrate
ILM3007-C05	CD7	0,5 ml concentrate
ILM3007-C1	CD7	1,0 ml concentrate

Intended use: For Research Use Only

Reactivity: Human

Clone: EP132

Species of origin: Rabbit

Isotype: IgG

Control Tissue: Tonsil, Peripheral T-cell lymphoma

Staining: Membranous

Immunogen: A synthetic peptide corresponding to residues of human CD7 protein

Presentation: Antibody in Tris Buffer, pH 7.3-7.7, with 1% BSA and <0.1% Sodium Azide

Application and suggested dilutions:

Pretreatment: Heat induced epitope retrieval in 10 mM citrate buffer, pH6.0, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution up to 1:100 -1:500)

The optimal dilution for a specific application should be determined by the investigator.

Note: Dilution of the antibody in 10% normal goat serum followed by a goat anti-rabbit secondary antibody-based detection is recommended.

Storage & Stability: Store at 2-8 °C. Do not use after expiration date printed on the vial.

Reference:

- 1) Hodak, E et al. J Am Acad Dermatol 2006; 55:276- 84.
- 2) Went, P et al. J Clin Oncol 2006; 24:2472-9.
- 3) Vonderheid, EC. J Cutan Pathol 2006; 33 Suppl 1:27-42.