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Purified Mouse Anti-Human CD7/GP40 Monoclonal Antibody

CLX09AP

- Clone: MEM-186
- Isotype: Mouse IgG1
- Specificity: The MEM-186 antibody reacts with CD7, a 40 kD type I transmembrane glycoprotein expressed on peripheral blood T lymphocytes, NK-cells, hematopoietic progenitors, monocytes (weakly) and also on acute lymphocytic leukemia.
HLDA VI; WS Code T 6T-015
- Immunogen: Human acute myelogenous leukaemia cell line KG-1.
- Species: Human
- Reactivity:
- Application: Flow Cytometry
Immunoprecipitation
Western Blotting
Application note: Non-reducing conditions.
Immunohistochemistry (paraffin sections)
Recommended dilution: 5 µg/ml
Positive tissue: spleen
- Purity: > 95% (by SDS-PAGE)
- Purification: Purified from ascites by precipitation methods and ion exchange chromatography.
- Concentration: 1 mg/ml
- Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
- Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
- Expiration: See vial label

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Background: CD7, also known as gp40, is a member of the immunoglobulin superfamily found on T cells, NK cells, thymocytes, hematopoietic progenitors, and monocytes (weakly). CD7 is also expressed on acute lymphocytic leukemia (ALL). CD7 crosslinking induces a calcium flux in T lymphocytes, presumably as a result of cytoplasmic domain association with PI3-kinase. CD7 co-stimulation can induce cytokine secretion and modulate cellular adhesion. A ligand of CD7, epithelial cell secreted protein K12, is produced in thymus to regulate thymocyte signaling and cytokine release. In lung microvascular endothelial cells CD7 serves as an IgM Fc receptor. Expression of CD7 is an important marker used in leukemia diagnostics.

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