

TECHNICAL INFORMATION

ImmunO™

Catalog Number: 693031

Monoclonal Anti-Human B-Lymphocyte LN-3

Form: In PBS, pH 7.0; 3 mg/ml BSA.**Description:** LN-3 is a murine monoclonal antibody (IgG2b) reactive with a nonpolymorphic HLA-DR (Ia-like) antigen. The antigens show the typical 29-33 K dalton molecular weight of Ia. The HLA-DR antigen is present on germinal center and mantle zone B cells, monocytes and macrophages and interdigitating histiocytes. T cells are generally negative although activated T cells may express HLA-DR.**Performance:** LN-3 is unique among anti-Ia monoclonal antibodies in that it reacts in paraffin sections as well as frozen tissue sections. The staining pattern in normal lymph nodes includes moderate staining of germinal center and mantle zone B lymphocytes and intense staining of interdigitating histiocytes in T cell zones. Anti-Ia antibodies are quite useful for separating T cell from B cell lymphomas although occasional T cell lymphomas may express the antigen. Because of its staining in paraffin sections, LN-3 is also useful for establishing the proportion of B cells in benign and inflammatory infiltrates. Ia antigens are present on a variety of epithelial and their neoplastic derivatives. In addition to its use in tissue sections, LN-3 is also quite useful for indirect immunofluorescence in cell suspensions.**Application:** This product is ready to use. It is recommended that the individual lab obtain their own optimal dilution for their assay.**Limitations:** Although LN-3 reacts in paraffin sections, the method of fixation may affect its reactivity. B-5 formalin fixation is optimal. Other precipitating fixatives such as Bouins fixative may also be useful. Formalin fixation may result in variable or artifactually negative results. Because the HLA-DR antigen is not lineage specific, it should not be used as an absolute indication of the presence of B cell origin for positive cells.

References:

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- Mason, D. Y., Biberfeld, P. (1980) Technical Aspects of Lymphoma Immunohistology. *J. Histochem Cytochem.*, **28**:731.
- Warnke, R., Levy, R. (1978) Immunopathology of Follicular Lymphomas: A Model of B-lymphocyte. *Homing. N. Eng. J. Med.*, **298**:481
- Okon, E., Felder, B., Epstein, A., Marder, R., Lukes, R., Taylor, C.: Monoclonal Antibodies Reactive with B-lymphocytes and Histiocytes in Paraffin Sections. *Cancer*, In press.
- Marder, R., Variakojis, D., Silver, J., Epstein, A.: Immunohistochemical Analysis of human Lymphomas with Monoclonal Antibodies to B-cell and Ia Antigens Reactive in Paraffin Sections. *Lab Investigations*, in press.
- Epstein, A.L., Marder, R. J., Winter, J. N., Fox, R. I.,: Two New Monoclonal Antibodies (LN-1, LN-2) Reactive in B-5 Formalin Fixed, Paraffin, Embedded Tissues with Follicular Center and Mantle Zone Human B-Lymphocytes and Derived Tumors. *J. Imm.* **133**:1028-1036. (1984).
- Hsu, S. M., Raine, L., and Fanger, H. (1981) Use of Avidin-biotinperoxidase Complex (ABC) in Immunoperoxidase Techniques: A Comparison Between ABC and Unlabeled Antibody (PAP) Procedures. *J. Histochem Cytochem.* **29**:577-580.

Note: This product may contain a preservative such as sodium azide, thimerosal or proclin. Please see lot specific chemical credential for preservative information.

[If a titer/working dilution is not given above, please click here to see a general dilution chart for working with antibodies. Please note that the general dilution chart should only be used as a guideline. Each lab should determine their own optimal working](#)

[dilution.](#)

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