



**Category:** Monoclonal Antibodies  
**Cat. #** 1107NF-V7045  
**Product Name:** HLA-DR - Class II (MHC) - Clone B319 (LN3)  
**Description:** Monoclonal Mouse Anti-HLA-DR -- Class II (MHC)  
**Immunogen:** Nuclei from pokeweed mitogen-stimulated PBL.  
**Cellular Localization:** cell membrane  
**Application:** Immunohistochemistry 1:50-1:100  
Flow (not tested in our lab)  
The optimum dilution should be determined by the individual lab.  
**Species Reactivity:** Human. Others not tested.  
**Recommended Positive Control:** Human Tonsil  
**Epitope:** not determined  
**Presentation:** 20 mM tris-borate, 150 mM Sodium Chloride, dialyzed media RPMI 1640/D-MEM containing fetal bovine serum, BMC-6 carrier polysaccharides, carrier protein, and 0.05% Sodium Azide, pH 7.5.

**Aliquoting Instructions:**

Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4° C. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies. When diluting for immunohistochemistry, ELISA or western blot, make the dilution in Antibody Diluting Buffer. Avoid diluting the entire contents of the vial at once since the diluted solution may have reduced stability.

**Staining Procedure:**

This antibody can be used on formalin-fixed, paraffin-embedded tissue sections. Prolonged fixation in buffered formalin can destroy the epitope. The antibody may be used at a dilution of 1:50-1:60 in IHC. It is recommended that this product be used on frozen tissue sections or specimens. The optimal conditions should be determined by the individual laboratory. When using paraffin-embedded and formalin-fixed tissues, high temperature antigenic unmasking technique (see instructions below) is strongly recommended for consistent and reproducible results.

**Specificity:**

This antibody reacts with B cells of germinal center and mantle zone. It reacts with interdigitating histocytes in T cell zones and with sinus histocytes and endothelial cells. This antibody is useful in the differentiation of lymphomas and leukemias.

**Storage:**

Store at 2~8o C for short term, freeze under -20oC for long term storage

**Notes:**

Antigen demasking: Boil tissue in 10mM citrate buffer for 10-20 mins followed by cooling to RT for 10-20 mins. OR Use pressure cooker for 5 mins in the citrate buffer. These steps are applied before applying primary antibody.

**Size:** 0.5 ml

**Clone:** B319 (LN3)

**Isotype:** IgG2b

**Host:** Mouse

**Form:** Concentrated

**Mol. Wt. of Antigen:** 36 kD(alpha chain) and 27 kD(beta chain)

**Concentration:** 0.3 mg/ml

**Units On Hand:** YES

**References:**

1. Andrade, R.E., et.al., Distribution and immunophenotype of the inflammatory cell population in the benign lymphoepithelial lesion (Mikulicz's disease). Human Pathology 19:932-941, 1988.
2. Azumi, N., et.al., Antigenic phenotype of Langerhans cell histiocytosis: An immunohistochemical study demonstrating the value of LN-2, LN-3, and vimentin. Human Pathology 19: 1376-1382, 1988.

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