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# Product datasheet for AM32359SU-N

## HLA Class II DR Mouse Monoclonal Antibody [Clone ID: LN-3]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | LN-3 |
| **Applications:** | IHC |
| **Recommended Dilution:** | **Immunohistochemistry on Paraffin Sections:** 1/100.<br>***Positive Control:*** Human Spleen.<br>*LN-3* can be applied for the identification of HLA-DR positive germinal center derived B cell lymphomes, HLA-DR positive T cell lymphomas, HLA-positive leukemias and solid tumors in B5 fixed, paraffin embedded tissue. |
| **Reactivity:** | Human |
| **Host:** | Mouse |
| **Isotype:** | IgG2b |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Human leukocyte antigen-DR |
| **Specificity:** | This antibody reacts with Human leukocyte antigen-DR (HLA-DR). The antibody clone *LN-3* has lymph node germinal center and mantle zone B cell reactivity.<br>It reacts with interdigitating histiocytes in T cell zones and with sinus histiocytes and endothelial cells. It has also tumor specificity and reactivity with normal nonlymphoid tissue.<br>***Cellular Localization:*** Cell membrane. |
| **Formulation:** | State: Supernatant<br>State: Liquid Serum Free Culture Supernatant<br>Stabilizer: 0.7% BSA<br>Preservative: 0.09% Sodium Azide |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store the antibody undiluted at 2-8°C. |
| **Stability:** | Shelf life: one year from despatch. |

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**Background:** HLA DR, like other MHC class II molecules, is a transmembrane glycoprotein composed of an alpha chain (36 kDa) and a beta chain (27 kDa). It is expressed primarily on antigen presenting cells such as B lymphocytes, monocytes, macrophages, thymic epithelial cells and activated T lymphocytes. Three loci, DR, DQ and DP, encode the major expressed products of the human class II region. The human MHC class II molecules bind intracellularly processed peptides and present them to T helper cells. They therefore have a critical role in the initiation of the immune response.

**Synonyms:** HLA-DR, HLA class II histocompatibility antigen DR, MHC class II antigen DR

**Note:** **Mol. Wt. of Antigeng:** 36 kDa (alpha chain) and 27 kDa (beta chain).