**Technical Data Sheet**

**Purified NA/LE Mouse Anti-Human HLA-DR**

**Product Information**

- **Material Number:** 555809
- **Alternate Name:** MHC class II antigen; HLA class II histocompatibility antigen
- **Size:** 0.5 mg
- **Concentration:** 1.0 mg/ml
- **Clone:** G46-6
- **Isotype:** Mouse IgG2a, κ
- **Reactivity:**QC Testing: Human
  Tested in Development: Rhesus, Cynomolgus, Baboon
  Reported Reactivity: Dog
- **Storage Buffer:** No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.01 EU/µg (≤0.001 ng/µg) of protein as determined by the LAL assay.

**Description**

The G46-6 monoclonal antibody specifically binds to HLA-DR, a major histocompatibility complex (MHC) class II antigen. HLA-DR antigens are encoded by genes within the Human Leukocyte Antigen (HLA) Complex located on chromosome 6. HLA-DR is a transmembrane heterodimeric glycoprotein composed of an α chain (36 kDa) and a β subunit (27 kDa) expressed primarily on antigen presenting cells: B cells, dendritic cells, monocytes, macrophages, and thymic epithelial cells. HLA-DR is also expressed on activated T cells. This molecule plays a major role in mediating cellular interactions during antigen presentation to CD4-positive T cells.

![Flow cytometric analysis of HLA-DR on human lysed whole blood.](image)

**Preparation and Storage**

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. This preparation contains no preservatives, thus it should be handled under aseptic conditions.

**Application Notes**

- **Application**
  - Flow cytometry: Routinely Tested
  - Functional assay: Tested During Development

**Recommended Assay Procedure:**

This antibody was tested during development for the mixed lymphocyte reaction (MLR). This antibody fixes complement and is able to block mixed lymphocyte reactions at an antibody concentration of 5 μl/ml. This NA/LE™ format is useful for *in vitro* functional studies.

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**Suggested Companion Products**

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<td>Polyclonal</td>
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<td>Purified NA/LE Mouse IgG2a, κ Isotype Control</td>
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<td>Lysing Buffer</td>
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**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.

**References**


Herodin F, Thullier P, Garin D, Drouet M. *Nonhuman primates are relevant models for research in hematolgy, immunology and virology.* Eur Cytokine Netw. 2005; 16(2):104-116. (Biology)


