**Description**
The monoclonal antibody MIDC-8 recognizes dendritic cells. Dendritic cells perform important immunoregulatory functions by presenting antigens in the form of peptides bound to cell-surface major histocompatibility complex (MHC) molecules to T cells. The monoclonal antibody MIDC-8 reacts with interdigitating cells in T cell dependent areas of secondary lymphoid organs, the medulla of thymus, veiled cells and Langerhans cells. In contrast to monoclonal antibody NLDC-145 it recognizes a cytoplasmatic component of these cell types. The distribution of the antigen is more restricted to the T-cell dependent areas than NLDC-145. The monoclonal antibody MIDC-8 does not stain thymic epithelial cells which are the major contaminants in thymic dendritic cell preparations. The antigen is also absent in blood cells, bone marrow cells or macrophages isolated from the peritoneal cavity. When dendritic cell-like immunoreactivity was examined in the mouse brain, the monoclonal antibodies MIDC-8 and NLDC-145 stained the glomerulus of the olfactory bulb and the olfactory nerves, suggesting some degree of the antigenicity in common with dendritic cells.

**Species**
Rat IgG2a

**Formulation**
1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.

**Application**
The monoclonal antibody MIDC-8 can be used for immunohistology on frozen sections. The antibody cannot be used for flow cytometry.

**Use**
For immunohistology dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

**Storage and stability**
Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.

**Precautions**
For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product.

**References**
2. Ueno, M et al; Dendritic cell-like immunoreactivity in the glomerulus of the olfactory bulb and olfactory nerves in mice. Neuroreport 2000, 11: 3573

**Also available**
- HM1069 Monoclonal antibody against Mouse CD205, clone NLDC-145
- HM1066 Monoclonal antibody against Mouse macrophages F4/80, clone BM8
- HM1039 Monoclonal antibody against Mouse neutrophils, clone NIMP-R14