



## Peninsula Laboratories, LLC

A Member of the Bachem Group

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### Monoclonal Antibody To Mouse Dendritic Cells (DC) Cytoplasmic Marker For Dendritic Cells

Monoclonal antibody MIDC-8 identifies dendritic cells including epidermal Langerhans cells, veiled cells and interdigitating cells in secondary lymphoid organs, the medulla of the thymus and its *in vitro* counterparts. In combination with monoclonal antibody NLDC-145 (product T-2013) it is very useful for the isolation of dendritic cells from the thymus. Double staining with MIDC-8 and NLDC-145 allows a more precise characterization of cells to be studied. Whereas MIDC-8 recognizes very specific cytoplasmic components, NLDC-145 stains cytoplasm and cell surface.

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<b>Product Number:</b>	T-2014
<b>Clone:</b>	MIDC-8
<b>Host species, isotype:</b>	Rat IgG2a
<b>Quantity:</b>	200µg
<b>Format:</b>	Affinity purified, lyophilized
	Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a preservative.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
<b>Applications:</b>	Tested for immunohistochemistry (IHC) <b>Approximate working dilution for IHC:</b> Frozen sections: 5µg/ml (1:80) Paraffin sections: does not react on routinely processed paraffin sections. Optimal dilutions should be determined by the end user. Suggested positive control: Mouse spleen.
<b>Immunogen:</b>	Mouse lymph node tissue.
<b>Antigen, epitope:</b>	The antigen is found in dendritic cells. The MIDC-8 antigen is localized in the cytoplasm as distinct spots near the nucleus. Immunohistological analyses indicate that the antigen recognized by MIDC-8 and NLDC-145 may be biochemically related.



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**Antigen distribution:**

**Isolated cells:** The antigen is found in dendritic cells. 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.

**Tissue sections:** The antigen is found in interdigitating cells in T cell dependent areas of secondary lymphoid organs, the medulla of thymus, veiled cells, and very weakly in Langerhans cells.

**Specificity:**

**Mouse:** interdigitating cells, dendritic cells

**Other species:** unknown

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**Selected references**

Breel, M. et al.: Eur. J. Immunol. 17: 1555-59 (1987)

Maruyama, T. et al.: Adv. Exp. Med. Biol. 329: 35 (1993)

Van Wilsem, E.J. et al.: J. Invest. Dermatol. 103: 217 (1994)

For in vitro research only. Caution: this product contains thimerosal, a poisonous and hazardous substance.