

Murine Hybridoma Clones and Monoclonal Antibodies: LN-4 and LN-5

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Technology description

Market Opportunity

It is now possible to perform immunologic identification of macrophages and dendritic cells by using monoclonal antibodies to these cell types. However, currently available monoclonal antibodies are limited by the requirement for fresh or frozen tissue specimens and are not suitable for immunoperoxidase studies using routinely processed pathological specimens.

USC Solution

A USC researcher has generated monoclonal antibodies, LN-4 and LN-5, reactive to human macrophages in B5 formalin-fixed, paraffin-embedded tissue sections. LN-4 has specificity for phagocytic macrophages and epithelioid histiocytes in hematopoietic tissues, while LN-5 demonstrated a wider range of hematopoietic reactivity. Due to these unique characteristics, LN-4 and LN-5 is an important new reagent for the diagnosis and classification of malignant and benign histiocytic lesions.

Key Publication

["Immunohistochemical characterization of two new monoclonal antibodies \(LN-4, LN-5\) reactive with human macrophage subsets and derived malignancies in B5-fixed, paraffin-embedded tissues," The American Society of Hematology , April 1988 .](#)

Application area

Research tool

Diagnostic

Advantages

Specificity for human macrophages

Ability to stain B5-fixed, paraffin-embedded tissues

Institution

[University of Southern California](#)

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