



BMA BIOMEDICALS

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Monoclonal Antibody To Human Interdigitating Cells Marker For A Subpopulation Of Inflammatory Leukocytes

Monoclonal antibody X-12 is useful for the detection of a subpopulation of human interdigitating (reticulum) cells in T-cell areas of lymph nodes and spleen and their *in vitro* correlates. It is also useful for the detection of a macrophage subpopulation in the thymus.

Product number: T-1008

Clone: X-12

Lot: 05PO9411

TECHNICAL AND ANALYTICAL CHARACTERISTICS:

Host species, isotype: Mouse IgG1

Quantity: 100µg

Format: Affinity purified, lyophilized

Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/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.

Stability: Original vial: 1 year at 4° - 8°C

Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.

Applications: Tested for immunohistochemistry (IHC); has been described to work in FACS.

Approximate working dilution for IHC:

Frozen sections: 0.25µg/ml (1:800)

Paraffin sections: not tested

Optimal dilutions should be determined by the end user.

Suggested positive control: Human tonsil.

Please see www.bma.ch for protocols and general information.

Immunogen: Human monocytes.

Antigen, epitope: The antigen or epitope have not been determined.

Antigen distribution:

Isolated cells: The antigen is found on a subpopulation (approximately 5%) of circulating monocytes and peritoneal macrophages, as well as on *in vitro* LPS and IFN stimulated macrophages, and on macrophages after 3 weeks in culture. It is absent from other blood cells..

Tissue sections: The antigen is found on interdigitating cells in the T-cell dependent areas of lymph nodes and spleen. In the thymus, it is also found on a subpopulation of macrophages in trabeculae, cortex and medulla. It is absent in the skin. A minor but distinct population of leukocytes in the kidney cortex is also positively stained by X-12.

Specificity:

Human: Macrophages, certain cultivated monocytes.

Other: not tested.

Selected references

PETERS, J.H., XU, H., STEINHAUSEN, F., RUPPERT, J.: A novel monoclonal antibody directed against human accessory cells in lymphoid organs. Gustav Fischer Verlag Stuttgart, Abstr. 7th International Congress Immunology, p.139 (1989).

PETERS, J.H., RUPPERT, J., GIESLELER, R.K.H., NAJAR, H.M., XU, H.: Differentiation of human monocytes into CD14 negative accessory cells: Do dendritic cells derive from the monocytic lineage. Pathobiology: 59, 122 - 126 (1991).

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