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DATA SHEET

Mouse Anti-Macrophage L1 Protein [MAC387]: MC0073, MC0073RTU7

Intended Use: For Research Use Only

Description: Recognizes the L1 or Calprotectin molecule, an intra-cytoplasmic antigen comprising of a 12kDa alpha chain and a 14kDa beta chain expressed by granulocytes, monocytes and by tissue macrophages. Macrophages usually arise from hematopoietic stem cells in the bone marrow. Under migration into tissues, the monocytes undergo further differentiation to become multifunctional tissue macrophages. They are classified into normal and inflammatory macrophages. Normal macrophages include macrophages in connective tissue (histiocytes), liver (Kupffer's cells), lung (alveolar macrophages), lymph nodes (free and fixed macrophages), spleen (free and fixed macrophages), bone marrow (fixed macrophages), serous fluids (pleural and peritoneal macrophages), skin (histiocytes, Langerhans's cell) and in other tissues. Inflammatory macrophages are present in various exudates. Macrophages are part of the innate immune system, recognizing, engulfing and destroying many potential pathogens including bacteria, pathogenic protozoa, fungi and helminthes. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and has been shown as an important marker for identifying macrophages in tissue sections.

Specifications

Clone:	MAC387
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, baboon, monkey, cow, pig, goat, horse, cat, dog, rabbit, guinea pig, rat, mouse
Immunogen:	Affinity Purified monocyte membrane preparation
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt, ICC/IF

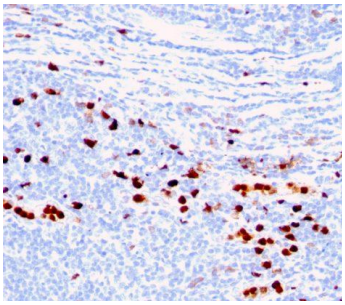
Package:

Description	Catalog No.	Size
Macrophage L1 Protein Concentrated	MC0073	1 ml
Macrophage L1 Protein Prediluted	MC0073RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Tonsil, lymph node, or spleen
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-Macrophage L1 Protein using DAB

References:

1. Patterns of the immunohistochemical expression of melanoma-associated antigens and density of CD45R0+ activated T lymphocytes and L1-protein positive macrophages in primary cutaneous melanomas.
2. Piérard-Franchimont C, et al. Int J Mol Med. Dec;2(6):721-4, 1998.

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