



## HISTOPRIME<sup>®</sup>

**CatNo E026**

### Macrophages/Monocytes

Lot: See Label

Storage: +2 to +8 °C

Exp. Date: See Label

### Monoclonal Antibody against human macrophages and monocytes

#### Specificity

The monoclonal antibody recognizes the cytoplasmic antigen L1 (calprotectin) of the monocyte/macrophage lineage. It is expressed by neutrophil granulocytes as well as tissue histiocytes, alveolar macrophages, Kupffer cells, splenic macrophages, infiltrating macrophages, sinusoidal macrophages as well as epithelial giant cells. It is also present in the cytoplasm of endothelial cells.

#### Contents

Reagents sufficient for about 50-100 tissue sections  
1 dropper bottle **HISTOPRIME<sup>®</sup> Macrophages/Monocytes** (Bottle, 5 ml )

#### Application

The monoclonal antibody E026 (MAC 387) stains the cytoplasm of cells of the monocyte-macrophage lineage. For example, infiltrating and reactive histiocytes or tumor-infiltrating macrophages can be detected.

#### Fusion Partners

BALB/c mice were immunized with purified blood monocytes. Spleen cells from these animals were fused with mouse myeloma cell line NS-1. The monoclonal antibody is available in ready-to-use form.

E026-220109-1/2





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### Characterization

#### Specificity

Cytoplasmic antigen in cells of the monocyte/macrophage lineage (including histiocytes, alveolar macrophages, Kupffer cells, splenic macrophages, tumor-infiltrating macrophages, sinusoidal macrophages, and epithelial giant cells; also, granulocytes under certain conditions.

#### Cross-reactivity

Cross reactions with monkey, dog, rabbit, cat, guinea pig, horse, rat and pig

#### Abnormal Tissues

Monocytes and macrophages in malignant tumors.

#### Clone

MAC387

#### Isotype

Mouse IgG1

#### Pretreatment

proteolytic pretreatment with 0.1% Pronase (LINARIS CatNo E110) 10 min at room temperature

#### Incubation Period

1 hour by room temperature

#### Control Tissue

Lymph nodes, spleen or tonsils

#### Application

Ready-to-use in PBS, BSA, NaN<sub>3</sub> (0.09%) pH 7.4(\*) suitable on cryostat sections and on formalin-fixed, paraffin-embedded tissue sections.

#### Recommended

#### Secondary

#### Reagents

**Alkaline Phosphatase** Vectastain<sup>®</sup> ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector<sup>®</sup> Red (Vector CatNo SK-5100).

**Peroxidase** Vectastain<sup>®</sup> ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).

#### References

1. David J. Flavell, David B. Jones, and Dennis H. Wright (1987) Identification of Tissue Histiocytes on Paraffin Sections by a New Monoclonal Antibody. J. Histochem. and Cytochem. 35, (11), 1217-1226.
2. Brandtzaeg P., Jones D.B., Flavell D.J., Fagerhold M.K. (1988) MAC387 Antibody and Detection of Formalin-resistant Myelomonocytic L1 Antigen. J. Clin. Pathol. 41; 963-970.
3. Brandtzaeg P., Dale I., Gabrielsen T-O. (1992) The Leucocyte Protein L1 (Calprotectin): Usefulness as an Immunohistochemical Marker Antigen and Putative Biological Function and Putative Biological Function. Histopathol. 21; 191-196

**Differential identification is aided by the results from a panel of antibodies. Interpretation must be made within the context of the patient's clinical history and other diagnostics tests by a qualified pathologist.**

#### (\*Note

**E026 contains Sodium Azide; take adequate precautions!**

E026-220109-2/2

**For Research use only. Not for use in diagnostic procedure**

Manufacturer

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FIT FOR SCIENCE

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