**Monoclonal Mouse**

**Anti-Human Immunodeficiency Virus (HIV), p24**

**Clone Kal-1**

**Code No. M 0857**

**Lot 021. Edition 06.03.01**

**Presentation**

Mouse monoclonal antibody supplied in liquid form as tissue culture supernatant (RPMI 1640 medium containing fetal calf serum) dialysed against 0.05 mol/L Tris/HCl, 15 mmol/L NaNO₃, pH 7.2.

**Mouse Ig concentration:** 60 mg/L.

**Isotype:** IgG1, kappa.

**Total protein concentration:** 15.1 g/L.

**Storage**

2-8 °C.

**Clone**

Kal-1. (1,2).

**Immunogen**

Purified HIV type 1, disrupted with 0.5% NP40.

**Specificity/reactivity**

The DAKO antibody reacts with the HIV type 1 capsid protein p24 and its precursor p55 as demonstrated by immunohistochemistry, immunoprecipitation, ELISA, and immunoblotting using lysates of purified virus and lysates of HIV type 1 infected cells (1, 2). The antibody detects an epitope of the p24 protein which is resistant to fixation and paraffin-embedding (2).

It does not cross-react with HIV type 2 or simian immunodeficiency virus (SIV) as shown by immunoblotting (1).

The antibody reacts with the p24 protein in cells infected with HIV type 1, e.g. in lymphocytes, in monocytes and macrophages, Langerhans cells of the skin, in follicular dendritic cells, and brain cells of monocyte/macrophage or microglia lineage (1-6).

On formalin-fixed, paraffin-embedded tissues the antibody gives in many but not all instances a positive staining of HIV infected dendritic reticulum cells in the germinal centers of lymph nodes (5). A weak staining of mononuclear cells (e.g. plasma cells) may be observed in formalin-fixed, paraffin-embedded tissue sections, however, only staining localized to the follicular dendritic cells in lymph nodes should be considered as specific.

**Staining procedures**

**Formalin-fixed and paraffin-embedded sections**

Can be used on formalin-fixed, paraffin-embedded tissue sections. The slides should not be allowed to dry out during this treatment or during the following immunohistochemical staining procedure.

For tissue sections sensitive staining techniques are recommended, such as the LSAB®+ or the EnVision™+ systems.

The antibody may be used at a dilution of 1:5 - 1:10 with the LSAB®+ system when tested on formalin-fixed, paraffin-embedded sections of HIV type 1 infected lymph node.

**Frozen sections and cell smears**

Can be used for labelling acetone-fixed cryostat sections or for fixed cell smears. For staining cell smears, the APAAP method is recommended.

The antibody may be used at a dilution of 1:5 - 1:10 in the APAAP technique, when tested on acetone-fixed cryostat sections of HIV type 1 infected lymph node.

These are guidelines only; optimal dilutions should be determined by the individual laboratory.

**Automation**

The antibody can be used on automated immunostaining systems.

(2)
References


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