

ProductInformation

MOUSE MONOCLONAL ALKALINE PHOSPHATASE ANTI-ALKALINE PHOSPHATASE (APAAP) CLONE AP1B9

Soluble Complex

Product No. **A 7827**

Product Description

Monoclonal Anti-Alkaline Phosphatase (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. The isotype is determined using Sigma ImmunoType™ Kit (Product Code ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Product Code. ISO-2).

Mouse Monoclonal Alkaline Phosphatase Anti-Alkaline Phosphatase is a soluble complex formed from levamisole-resistant calf intestinal alkaline phosphatase and purified mouse monoclonal antibody to alkaline phosphatase. The use of a mouse monoclonal alkaline phosphatase anti-alkaline phosphatase (APAAP) complex, in conjunction with a primary mouse antibody and a secondary bridging antibody (anti-mouse IgG), results in an intense signal with a very low background, while avoiding problems inherent to the covalent conjugation of antibodies. If needed, further enhancement of staining intensity is possible by repeated application of the bridging antibody and the APAAP. Interference by endogenous enzyme activity in mammalian antigen preparations or tissues, and the toxic substrates used with other enzyme labels are avoided with the choice of alkaline phosphatase as the labeling enzyme. Endogenous alkaline phosphatase in tissues other than the intestine or placenta may be effectively inhibited by supplementing the substrate solution with 1 mM levamisole (Product No. L9756). The APAAP may be useful in immuno-enzymatic staining of blood and bone-marrow smears and cytopins, cell smears and cytopins prepared from serous effusions, and tissue sections. APAAP may be used with other enzyme labeled conjugates such as peroxidase anti-peroxidase (PAP) for immunohistochemical double labeling.

Reagent

The conjugate is provided as a soluble complex of calf intestinal alkaline phosphatase and monoclonal antibody

in 0.05 M Tris-HCl, pH 8.0, containing 1 mM MgCl₂, 1% BSA and 15 mM sodium azide as a preservative.

Precaution and Disclaimer

Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

Specificity

The antibody is specific for an epitope on bovine intestinal alkaline phosphatase that does not interfere with the activity of the enzyme.

Uses

Mouse Monoclonal APAAP may be used for:

1. Immunohistochemical staining of tissue sections.
2. Immunocytochemical staining of cell preparations.
3. Double labeling with other enzyme labeled conjugates or complexes for immunohistochemistry and immunocytochemistry.

Working Dilution

A working dilution of at least 1:40 was determined using formalin-fixed, paraffin-embedded sections.

Product Performance

After the primary antibody and bridging antibody have been applied, the diluted conjugate is applied to cell smears or tissue sections. For further enhancement of staining intensity, application of the bridging antibody and APAAP may be repeated. Avoid using aldehyde fixatives. Use Tris buffer as a diluent as Phosphate buffers will interfere with the reaction.

Storage

Store at 2-8 °C. **Do Not Freeze.**

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