

Human Eosinophil Major Basic Protein

Clone BMK-13

Cat. no. MON 6008

Specificity

BMK-13 binds to the 10 kD eosinophil Major Basic Protein (MBP) of both resting and activated eosinophils in cytopins and frozen sections of bronchial and skin biopsies of allergic sites and normal sites and thus can be used as a "pan-eosinophil" marker. The antibody BMK-13 stains in frozen sections of bronchial biopsies from atopic asthmatics, rhinitics and normal non-atopic subjects, substantially higher counts of positive cells when compared to EG1, EG2 and chromotrope 2R. BMK-13 cross-reacts weakly with human basophils, which also contain low level of this protein. It does not cross-react with any other human protein or cell.

Immunoglobulin type

Mouse IgG₁

Use

This mAb is a very useful tool for clinical and experimental allergy studies. BMK-13 is a pan-eosinophil marker in both frozen sections and paraffin embedded tissues. It stains in bronchial sections 98% of the periphery blood eosinophils. Further, the antibody can be used in specific ELISA tests to determine the release of MBP and to quantify the number of eosinophils in various in vitro adhesion assays.

Instructions for use

Most useful for immunohistochemistry on frozen sections is the APAAP method. BMK-13 also binds to eosinophils in paraffin-embedded tissue. A 1:30 dilution in PBS is recommended. Incubation time: 1 hour at RT.

Enzymatic pretreatment is necessary. We recommend to use pepsine (Roche, Cat.# 108057)

Do **NOT** use heat denaturation.

This antibody is suitable for blood smears (cytopins) if fixed with methanol-acetone mixture (1:1, v/v). It is unlikely, without permeabilization, that the BMK13 is suitable for the flow cytometry because BMK13 stains intracellular, stored proteins.

Presentation

1 ml purified antibody (conc. 100 µg/ml) in PBS + 0.1% BSA + 0.02% sodium azide.

Literature

- Barkans, J.R., et al., 1990, Clin. & Exp. Allergy 20, suppl. 1, page 1.
- Moqbel, R., et al., 1992, Clin & Exp. Allergy 22, 265-273.
- Spry, C.J.F., et al., 1992, "Trends, eosinophils 1992" Immunology today 13, 384-387.

Storage

Store antibody at 2-8°C until expiry date.

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.

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