

Epithelial Keratin Type I, clone AE-1 Monoclonal Antibody

Catalog No.: MON3037

Quantity: 250 µg

Specificity

This antibody has shown to recognize most of the acidic (type I) keratins. Each epithelium contains at least one acidic keratin. In this way AE-1 is broadly reactive with almost all epithelial and there neoplasms. In addition, this antibody exhibits the interesting property of producing heterogenous staining within a given epithelium; the detailed staining pattern varies depending on the differentiated and/or growth state of the individual cells. This antibody together with AE-1 has been used for studying the immuno-localization of epidermal keratins, tissue distribution and epithelia development. AE-1 and AE-3 have also been used extensively, individually or mixed, for distinguishing carcinoma from non-carcinoma. The antibody is cross-reactive with keratins of rabbit, mouse, rat, and bovine and chicken. Within immunoblots AE-1 detects distinct MW's of 40 kD, 45 kD, 46 kD, 48 kD, 50 kD, (50' kD), 51 kD, 55 kD and 56.5 kD with all Ip's lower then 5.7. These MW's are believed to correspond with respectively keratin 19, 18, 17, 16, 15, 14, 13, 12 and 10.

Immunoglobulin type

Murine IgG

Use

In unfixed frozen sections and formalin-fixed paraffin embedded tissues. Also applicable in Western blotting.

Instructions for use

For use on formalin-fixed paraffin embedded tissues a dilution of approximately 1:150 to 1:200 is appropriate if section is incubated for 30 min. at 37°C. Possibly, higher dilutions can be used if sections are incubated at 4°C overnight. For use in Western blotting a dilution of 1:100 is advised

Presentation

Each vial contains 250 µg purified IgG with 0.1% sodium azide.

Literature

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- Battifora, H., et al., 1984, Cancer 54, 843-848.
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