



PRODUCT DATA SHEET

Product: Anti-Epithelial Keratin Type II, clone AE-3

Cat. No: MC-976 (250 µg)

Background: This antibody recognizes most of the basic (type II) keratins. Each epithelium contains at least one basic keratin. AE-3 is broadly reactive with almost all epithelial and their neoplasms. This antibody together with MC-975 (clone AE-1) has been used for studying the immuno-localization of epidermal keratins, tissue distribution and epithelial development. AE-1 and AE-3 have also been used extensively, individually or mixed, for distinguishing carcinoma from non-carcinoma.

Specificity: AE-3 detects distinct MW's of 52 kDa, 54 kDa, 56 kDa, 58 kDa, 59 kDa, 64 kDa, and 65-67 kDa, with all Ip's lower than 6.0. These MW's are believe to correspond with keratin 8, 7, 6, 5, 4, 3 and 1&2, respectively.

Species Reactivity: Human, bovine, chicken, mouse, rabbit, and rat. Others not tested.

Ig Isotype: Mouse IgG₁

Format: 250 µg purified IgG at 1 mg/ml with 0.1% sodium azide.

Storage and Stability: Store undiluted antibody at 2 - 8°C. For long term, aliquot and store at -20°C. Avoid freeze/thaw cycles.

Applications and Suggested Dilutions:

- Immunohistochemistry: (Formalin-fixed / Paraffin-embedded sections) Use at 1:150-1:200 for 30 min. at 37°C. Higher dilutions can be used if sections are incubated at 4°C overnight.
- Western blot: Use at 1:100.

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.