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Monoclonal Antibody to Cytokeratin type I (acidic) - Purified

Catalog No.: AM01378PU-N

Quantity: 0.2 ml

Background: Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI ‹5.7) and basic (pI ›6.0) subfamilies. The acidic keratins have molecular weights of 56.5, 55, 51, 50, 50', 48, 46, 45, and 40kDa. The basic keratins have molecular weights of 65 - 67, 64, 59, 58, 56 and 52kDa. Members of acidic and basic subfamilies are found together in pairs. The composition of keratin pairs varies with cell type, differentiation status and environment. Many studies have shown the usefulness of keratins as markers in cancer research and tumor diagnosis.

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls: SM10P (for use in human samples), AM03095PU-N

Clone: AE1

Immunogen: Human epidermal keratins

Format:
State: Liquid purified Ig fraction
Purification: Protein G chromatography
Buffer System: PBS containing 0.09% sodium azide

Applications:
Immunohistochemistry.
Western blot (1:1000 - 1:3000).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
The antibody recognizes most human acidic (type I) keratins K10, K14, K15, K16, K19.
Other species not tested.

Storage:
Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Protocols: Western Blotting Protocol

1. Transfer gel to PDVF or nitrocellulose membrane
2. Place membrane in plastic tray in blocking buffer for one hour with agitation
3. Rinse in wash buffer
4. Incubate in wash buffer plus primary antibody for one hour
5. Wash 6 X 5 minutes with wash buffer
6. Incubate in wash buffer plus secondary antibody for one hour
7. Wash 6X 5 minutes with wash buffer

8. Detect (e.g. ECL, Amersham according to manufacturers instructions)

Wash buffer:
PBS + 0.1% Tween 20

Blocking buffer:
Wash buffer + 5% dried milk powder