

Cytokeratin, Pan (Clone AE1/AE3) Mouse Monoclonal Antibodies

Specificity: Human, monkey, cow, rabbit, mouse, rat, chicken. Others-not known

Immunogen: Human epidermal keratin

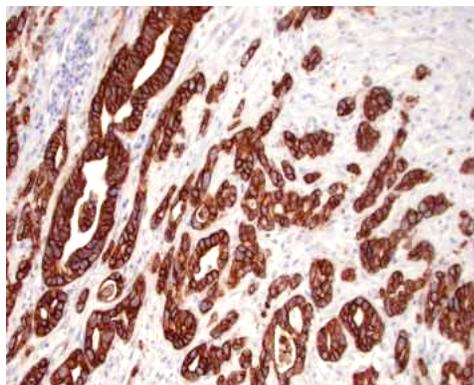
Ig Class: IgG1 + IgG1

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Digestion with trypsin, 1mg/ml in PBS, at 37°C for 10 minutes. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* Squamous cell carcinoma, prostate. *Cellular Localization:* Membranous and cytoplasmic. *Intended Use:* In vitro diagnosis (IVD).

Description: 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. MAb AE1 recognizes the 56.5, 50, 50', 48, and 40kDa keratins of acidic subfamily, whereas the AE3 MAb reacts with the basic keratins of 65-67, 64, 59, 58, 56, and 52kDa. AE1/AE3 reacts with keratinized (56.5/65-67) and corneal (55/64) epidermis, stratified squamous epithelia of internal organs (51/59), stratified epithelia (50/58), hyperproliferative keratinocytes (48/56), and simple epithelia (45/52 and 46/54). AE1/AE3 is a broad spectrum anti pan-keratin antibody cocktail which differentiates epithelial from non-epithelial tumors.

Supplied As: Purified antibody 0.2% BSA and 15mM sodium azide.



Formalin-fixed, paraffin-embedded human infiltrating breast carcinoma stained with anti-pankeratin AE1/AE3 antibody using peroxidase-conjugate and DAB chromogen. Note the cytoplasmic staining of tumor cells

Cat. #Z2061 (1.0 ml)

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