

DM055**Monoclonal Antibody to Cytokeratin 10 - Supernatant**

Alternate names:	CK-10, CK10, Cytokeratin-10, K10, KPP, KRT10, Keratin, Keratin-10, Type I Cytoskeletal 10
Quantity:	1 ml
Background:	Cytokeratin 10 is a heterotetramer of two type I and two type II keratins. Cytokeratin 10 is generally associated with keratin 1. It is seen in all suprabasal cell layers including stratum corneum. A number of alleles are known that mainly differ in the Gly-rich region (positions 490-560). Defects in cytokeratin 10 are a cause of epidermolytic hyperkeratosis (EHK), also known as bullous congenital ichthyosiform erythroderma (BCIE) or bullous erythroderma ichthyosiformis congenita of Brocq. EHK is an hereditary skin disorder characterized by blistering and a marked thickening of the stratum corneum. At birth, affected individuals usually present with redness, blisters and superficial erosions due to cytolysis. Within a few weeks, the erythroderma and blister formation diminish and hyperkeratoses develop. Transmission is autosomal dominant, but most cases are sporadic. Defects in cytokeratin 10 are also a cause of annular epidermolytic ichthyosis (AEI), also known as cyclic ichthyosis with epidermolytic hyperkeratosis. AEI resembles clinical and histologic features of both epidermolytic hyperkeratosis and ichthyosis bullosa of Siemens.
Uniprot ID:	P13645
NCBI:	NP_000412.3
GeneID:	3858
Host / Isotype:	Mouse / IgG1
Clone:	DE-K10
Immunogen:	Cytoskeletal preparation from Human epidermis.
Format:	State: Liquid Tissue Culture Supernatant Buffer System: 0.15M PBS Preservatives: 0.09% Sodium Azide Stabilizers: 1% BSA
Applications:	Western Blot. Cell Suspensions. Immunohistochemistry on Frozen Sections: 1/5-1/10 (Fixation with acetone for 5 min. at -20°C is recommended). Immunohistochemistry on Paraffin Sections: 1/100 (Fixation with neutral formalin and a pretreatment with pronase or trypsin is also recommended). <i>Recommended Positive Control:</i> Squamous cell carcinoma, epidermis. <i>Incubation Time:</i> 1 h at room temperature. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

- Specificity:** This antibody specifically recognizes the 56.6 kDa Keratin K10 (formerly also designated Cytokeratin 10) polypeptide in squamous cells and carcinomas from *e.g.* epidermis, lung, bladder, cervix, oesophagus.
Species: Human.
Other species not tested.
- Storage:** Store 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.
- Product Citations:** **Purchased from Acris:**
1. Jaeger J, Koczan D, Thiesen HJ, Ibrahim SM, Gross G, Spang R, et al. Gene expression signatures for tumor progression, tumor subtype, and tumor thickness in laser-microdissected melanoma tissues. *Clin Cancer Res.* 2007 Feb 1;13(3):806-15. PubMed PMID: 17289871.
- General Readings:**
1. Ivanyi D, Ansink A, Groeneveld E, Hageman PC, Mooi WJ, Heintz AP. New monoclonal antibodies recognizing epidermal differentiation-associated keratins in formalin-fixed, paraffin-embedded tissue. Keratin 10 expression in carcinoma of the vulva. *J Pathol.* 1989 Sep;159(1):7-12. PubMed PMID: 2478685.