

Cytokeratin 10; Clone DE-K10

Catalog Number	Format	Volume
A00089-0002	(Ready-To-Use)	2 ml
A00089-0007	(Ready-To-Use)	7 ml
A00089-0025	(Ready-To-Use)	25 ml
A00089-C.1	(Concentrate)	0.1 ml
A00089-C	(Concentrate)	1 ml

Intended Use

For Research Use Only. This antibody is intended for the qualitative visualization of the anatomical elements listed in the Specificity section. It is intended to be used within an Immunohistochemistry (IHC) procedure on formalin-fixed paraffin-embedded (FFPE) human tissue followed by visualization by light microscopy. Any diagnostic interpretation of the results of this antibody is to be complemented by morphological studies using proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

Description

Titer/Working Dilution: Ready-to-Use: No further dilution required.

Concentrate: Suggested dilution is 1:100-200

Species: Mouse
Immunogen: Cytoskeletal preparation extracted from human ectocervical epithelium.
Clone: DE-K10
Isotype: IgG1, Kappa.
Entrez Gene ID: 3858 (Human)
Hu Chromosome Loc.: 17q21.2
Synonyms: BCIE, BIE, EHK, Keratin Type I Cytoskeletal 10, KRT10.
Mol. Wt. of Antigen: 56.5kDa
Format: Ready-To-Use antibody has been pretitered and quality controlled to work on formalin-fixed paraffin-embedded tissue sections. No further titration is required.

Concentrate antibody is provided at 200µg/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% Sodium Azide.

Specificity: This antibody recognizes a protein of 56.5kDa identified as Cytokeratin 10.

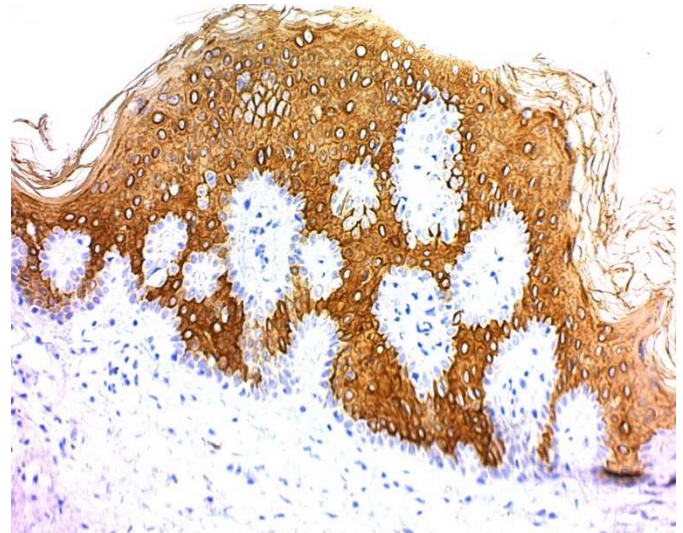
Background: Cytokeratin 10 is expressed in all suprabasal layers of the epidermis. In the epidermis, expression of Cytokeratin 10 strictly parallels the extent of differentiation; it is absent in the basal layer, but appears in the first suprabasal layers and increases in concentration towards the granular layer. However, Cytokeratin 10 is rarely detected in early stages of vulvar squamous carcinomas (tumors less than 2 cm, clinical stage I) regardless of the tumor grade. In larger and more advanced tumors (greater than 2 cm, clinical stages II and III), Cytokeratin 10 is detected very frequently. Expression of Cytokeratin 10 is related to maturation of malignant keratinocytes, being preferentially detected in more differentiated parts.

Species Reactivity: Human, Dog and Cat. Others-not known

Positive Control: Skin

Cellular Localization: Cytoplasmic

Microbiological State: Nonsterile.



Human Skin stained using Cytokeratin 10; Clone DE-K10. Results were visualized using ScyTek's UHP500 detection system and DAB Chromogen/Substrate Kit (High Contrast) Cat# ACV500. Magnification 200X.

Materials and Reagents Required but not Provided

- Control tissue and reagents
- Xylene, graded alcohols, and deionized/distilled water
- Antibody Diluent.
- IHC detection system. Suggested: ScyTek Cat# ABZ125 "CRF Anti-Polyvalent HRP Polymer" and ScyTek Cat# ACV500 "DAB Chromogen/Substrate Kit (High Contrast)".
- Wash buffer for rinses (ScyTek Cat# TBT500)
- Retrieval Solution
- Hematoxylin counterstain and bluing reagent (ScyTek Cat# HMM500 and BRT500)
- Mounting medium and coverslips

Note: ScyTek Laboratories has a wide range of IHC reagents and ancillaries that can be found at scytek.com.


Procedure

- Tissue Section Pretreatment (Recommended):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Pepsin, Stabilized Solution (see ScyTek catalog# PSS for instructions). In-house studies have shown that Heat Induced Epitope Retrieval (HIER) may result in a decrease in staining intensity.
- Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
- Visualization:** For maximum staining intensity we recommend the "CRF Anti-Polyvalent HRP Polymer" (ScyTek catalog# ABZ125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

Storage and Stability

Do not Freeze. Store at 2-8°C. Return to 2-8° immediately after use. Do not use after expiration date printed on label. Verify visually that antibody has not been contaminated before use. Do not use if reagent becomes cloudy or precipitates.

Storage: 2° C  8° C

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Limitations

Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used. This data sheet's recommendations and procedures were validated using ScyTek IHC reagents and may not be suitable for other detection systems.

Precautions



1. Contains Sodium Azide as a preservative (0.09% w/v), do not ingest. Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides. Upon disposal, flush with large volumes of water to prevent azide build-up in plumbing. This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.
2. Do not pipette by mouth.
3. Avoid contact of reagents and specimens with skin and mucous membranes.
4. Avoid microbial contamination of reagents or increased nonspecific staining may occur.
5. The user must validate any procedures and recommendations that differ from this data sheet.
6. The SDS may be found at scytek.com

References

1. Ivanyi D. et. Al. Journal of Pathology, 1989, 159:7-12.
2. Ivanyi D. et. Al. Differentiation, 1989, 42(2):124-9.

Warranty

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