

## Product datasheet

# Anti-Cytokeratin 14 antibody [LL002] ab7800

★★★★★ 16 Abreviews 65 References 7 图像

### 概述

|       |  |
|-------|--|
| 产品名称  | Anti-Cytokeratin 14抗体[LL002]   |
| 描述    | 小鼠单克隆抗体[LL002] to Cytokeratin 14   |
| 宿主    | Mouse  |
| 经测试应用 | 适用于: WB, Flow Cyt, ICC/IF, IHC-P, IHC-Fr   |
| 种属反应性 | 与反应: Mouse, Rat, Human   |
| 免疫原   | Synthetic peptide corresponding to Human Cytokeratin 14 (C terminal).<br>Database link: <a href="#">P02533</a> |

### 常规说明

This antibody labels the basal layer of stratifying squamous and non-squamous epithelia. The staining pattern is cytoplasmic. It recognizes basal cell carcinomas and squamous cell carcinomas.

### 性能

|                    |   |
|--------------------|---|
| 形式                 | Liquid  |
| 存放说明               | Shipped at 4°C. Upon delivery aliquot. Store at +4°C. Do Not Freeze.  |
| 存储溶液               | Preservative: 0.05% Sodium azide<br>Constituent: 0.05% BSA  |
| 纯度                 | Prepared in 10mM PBS<br>Immunogen affinity purified   |
| Primary antibody说明 | This antibody labels the basal layer of stratifying squamous and non-squamous epithelia. The staining pattern is cytoplasmic. It recognizes basal cell carcinomas and squamous cell carcinomas. |
| 克隆                 | 单克隆   |
| 克隆编号               | LL002   |
| 同种型                | IgG3  |

### 应用

Our [Abpromise guarantee](#) covers the use of **ab7800** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| 应用          | Ab评论  | 说明  |
|-------------|-------|---|
| WB          | ★★★★☆ | Use at an assay dependent concentration.  |
| Flow<br>Cyt |       | Use at an assay dependent concentration.<br>0.5-1ug/million cells in 0.1ml<br><a href="#">ab91537</a> - Mouse monoclonal IgG3, is suitable for use as an isotype control with this antibody.        |
| ICC/IF      | ★★★★☆ | Use a concentration of 0.5 - 1 µg/ml.   |
| IHC-P       | ★★★★★ | Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.<br>Incubate for 30 min at RT<br>(See abreview) |
| IHC-<br>Fr  | ★★★★★ | 1/20 - 1/300. PubMed: 23769181  |

## 靶标

|       |  |
|-------|--|
| 功能    | The nonhelical tail domain is involved in promoting KRT5-KRT14 filaments to self-organize into large bundles and enhances the mechanical properties involved in resilience of keratin intermediate filaments in vitro.   |
| 组织特异性 | Detected in the basal layer, lowered within the more apically located layers specifically in the stratum spinosum, stratum granulosum but is not detected in stratum corneum. Strongly expressed in the outer root sheath of anagen follicles but not in the germinative matrix, inner root sheath or hair. Found in keratinocytes surrounding the club hair during telogen.   |
| 疾病相关  | Defects in KRT14 are a cause of epidermolysis bullosa simplex Dowling-Meara type (DM-EBS) [MIM:131760]. DM-EBS is a severe form of intraepidermal epidermolysis bullosa characterized by generalized herpetiform blistering, milia formation, dystrophic nails, and mucous membrane involvement.<br>Defects in KRT14 are a cause of epidermolysis bullosa simplex Weber-Cockayne type (WC-EBS) [MIM:131800]. WC-EBS is a form of intraepidermal epidermolysis bullosa characterized by blistering limited to palmar and plantar areas of the skin.<br>Defects in KRT14 are a cause of epidermolysis bullosa simplex Koebner type (K-EBS) [MIM:131900]. K-EBS is a form of intraepidermal epidermolysis bullosa characterized by generalized skin blistering. The phenotype is not fundamentally distinct from the Dowling-Meara type, although it is less severe.<br>Defects in KRT14 are the cause of epidermolysis bullosa simplex autosomal recessive (AREBS) [MIM:601001]. AREBS is an intraepidermal epidermolysis bullosa characterized by localized blistering on the dorsal, lateral and plantar surfaces of the feet.<br>Defects in KRT14 are the cause of Naegeli-Franceschetti-Jadassohn syndrome (NFJS) [MIM:161000]; also known as Naegeli syndrome. NFJS is a rare autosomal dominant form of ectodermal dysplasia. The cardinal features are absence of dermatoglyphics (fingerprints), reticular cutaneous hyperpigmentation (starting at about the age of 2 years without a preceding inflammatory stage), palmoplantar keratoderma, hypohidrosis with diminished sweat gland |

function and discomfort provoked by heat, nail dystrophy, and tooth enamel defects. Defects in KRT14 are the cause of dermatopathia pigmentosa reticularis (DPR) [MIM:125595]. DPR is a rare ectodermal dysplasia characterized by lifelong persistent reticulate hyperpigmentation, noncicatrical alopecia, and nail dystrophy.

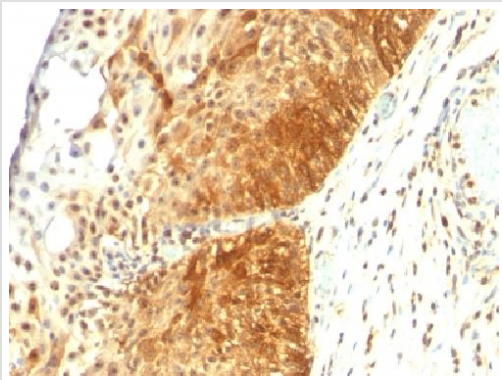
**序列相似性**

Belongs to the intermediate filament family.

**细胞定位**

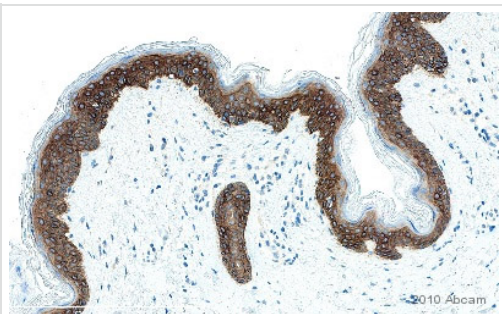
Cytoplasm. Nucleus. Expressed in both as a filamentous pattern.

**图片**



ab7800 staining Cytokeratin 14 in Human prostate tissue sections by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).

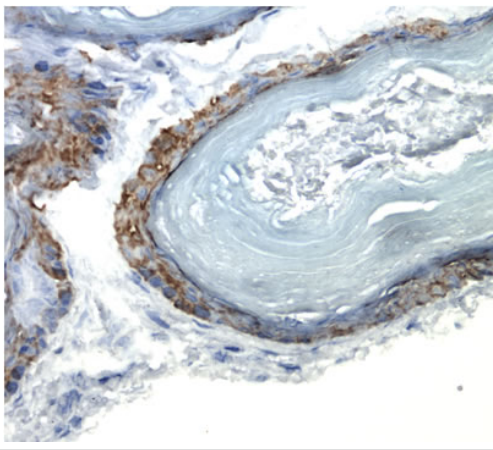
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 14 antibody [LL002] (ab7800)



ab7800 staining Cytokeratin 14 in Human normal skin tissue sections by IHC-P (Formaldehyde-fixed, Paraffin-embedded sections). Tissue samples were fixed with formaldehyde and blocked with 10% Serum for 30 minutes at 21°C; antigen retrieval was by heat mediation in citrate buffer (pH 6). The sample was incubated with primary antibody (1/100 in PBS + 0.5% Tween-20 + 0.5% BSA)) at 21°C for 30 minutes. An undiluted HRP-conjugated goat polyclonal to mouse IgG was used as secondary antibody.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 14 antibody [LL002] (ab7800)

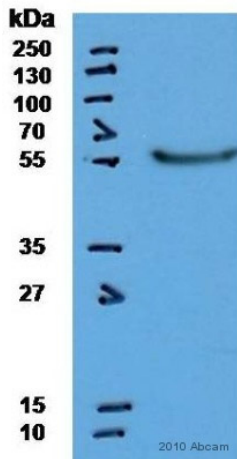
This image is courtesy of an anonymous Abreview



Immunohistochemistry (Frozen sections) - Anti-Cytokeratin 14 antibody [LL002] (ab7800)

This image is courtesy of Betty Tang

ab7800 was used to stain mouse prostate.



Western blot - Anti-Cytokeratin 14 antibody [LL002] (ab7800)

This image is courtesy of an anonymous Abreview

Anti-Cytokeratin 14 antibody [LL002] (ab7800) at 2  $\mu$ g/ml + Human HaCaT whole cell lysate at 30  $\mu$ g

**Secondary**

Goat Anti-mouse IgG Polyclonal at 1/20000 dilution

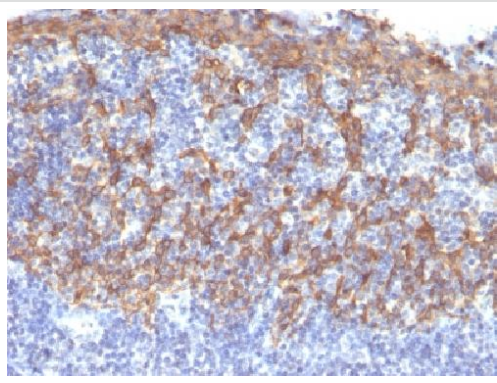
Developed using the ECL technique.

**Observed band size:** 55 kDa

**Exposure time:** 1 minute

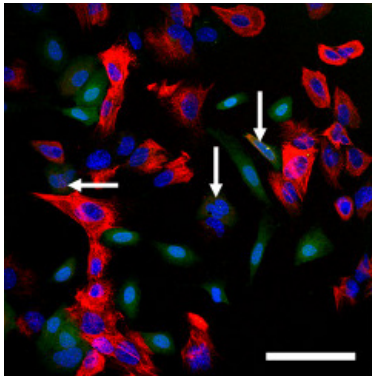
**Blocking Step:** 5% Milk for 12 hours at 4°C

**Gel Running Conditions:** 15%,6V,50min;  
Reduced; Denaturing



ab7800 staining Cytokeratin 14 in Human prostate tissue sections by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).

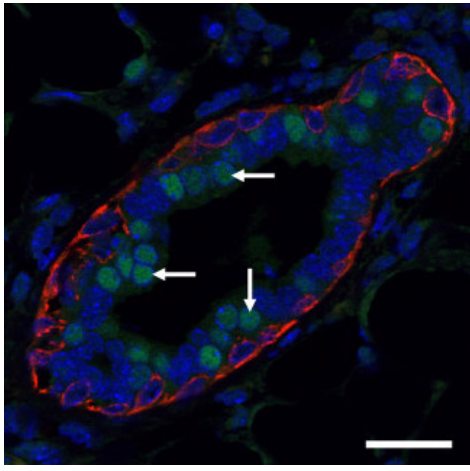
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 14 antibody [LL002] (ab7800)



Immunofluorescence analysis of mouse mammary epithelial cells, staining Cytokeratin 14 (red) with ab7800.

Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 14 antibody [LL002] (ab7800)

Image from Kendrick H et al., BMC Genomics. 2008 Dec 8;9:591. doi: 10.1186/1471-2164-9-591.; Fig 8.; 8 December 2008, BMC Genomics 2008, 9:591



Immunohistochemical analysis of mouse mammary duct tissue, staining Cytokeratin 14 (red) with ab7800.

Antigen retrieval was carried out on paraffin-embedded sections by boiling in citrate buffer (pH 6) for 18 minutes in a microwave.

Sections were then blocked for 1.5 hours in blocking reagents, before incubating with primary antibody (0.26  $\mu\text{g}/\text{ml}$ ) overnight at 4°C. An AlexaFluor®555-conjugated goat anti-mouse IgG was used as the secondary antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 14 antibody [LL002] (ab7800)

Image from Kendrick H et al., BMC Genomics. 2008 Dec 8;9:591. doi: 10.1186/1471-2164-9-591.; Fig 1.; 8 December 2008, BMC Genomics 2008, 9:591

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