abcam

Product datasheet

Anti-Cytokeratin 1 antibody [EPR17744] ab185628

重组 RabMAb

11 References 8 图像

概述

产品名称	Anti-Cytokeratin 1抗体[EPR17744]
描述	兔单克隆抗体[EPR17744] to Cytokeratin 1
宿主	Rabbit
特异性	Recombinant mouse cytokeratin 5 could be detected at very high antibody concentrations in WB.
经测试应用	**适用于:** WB, IHC-P, IHC-Fr
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Mouse, rat and human skin lysates. IHC-P: Mouse and rat skin tissues. IHC-Fr: Mouse skin tissue.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR17744

同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab185628于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

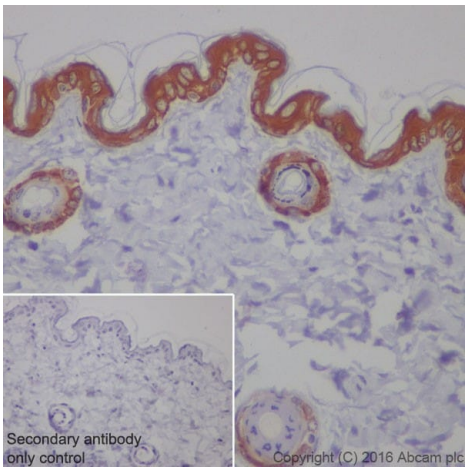
应用	Ab评论	说明
WB		1/20000. Detects a band of approximately 66 kDa (predicted molecular weight: 66 kDa).
IHC-P		1/600. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		1/200.

靶标

功能	May regulate the activity of kinases such as PKC and SRC via binding to integrin beta-1 (ITB1) and the receptor of activated protein kinase C (RACK1/GNB2L1).
组织特异性	The source of this protein is neonatal foreskin. The 67-kDa type II keratins are expressed in terminally differentiating epidermis.
疾病相关	Defects in KRT1 are a cause of bullous congenital ichthyosiform erythroderma (BCIE) [MIM:113800]; also known as epidermolytic hyperkeratosis (EHK) or bullous erythroderma ichthyosiformis congenita of Brocq. BCIE is an autosomal dominant skin disorder characterized by widespread blistering and an ichthyotic erythroderma at birth that persist into adulthood. Histologically there is a diffuse epidermolytic degeneration in the lower spinous layer of the epidermis. Within a few weeks from birth, erythroderma and blister formation diminish and hyperkeratoses develop. Defects in KRT1 are the cause of ichthyosis hystrix Curth-Macklin type (IHCM) [MIM:146590]. IHCM is a genodermatosis with severe verrucous hyperkeratosis. Affected individuals manifest congenital verrucous black scale on the scalp, neck, and limbs with truncal erythema, palmoplantar keratoderma and keratoses on the lips, ears, nipples and buttocks. Defects in KRT1 are a cause of palmoplantar keratoderma non-epidermolytic (NEPPK) [MIM:600962]. NEPKK is a dermatological disorder characterized by focal palmoplantar keratoderma with oral, genital, and follicular lesions. Defects in KRT1 are a cause of ichthyosis annular epidermolytic (AEI) [MIM:607602]; also known as cyclic ichthyosis with epidermolytic hyperkeratosis. AEI is a skin disorder resembling bullous congenital ichthyosiform erythroderma. Affected individuals present with bullous ichthyosis in early childhood and hyperkeratotic lichenified plaques in the flexural areas and extensor surfaces at later ages. The feature that distinguishes AEI from BCIE is dramatic episodes of flares of annular polycyclic plaques with scale, which coalesce to involve most of the body surface and can persist for several weeks or even months. Defects in KRT1 are the cause of palmoplantar keratoderma striate type 3 (SPPK3) [MIM:607654]; also known as keratosis palmoplantaris striata III. SPPK3 is a dermatological disorder affecting palm and sole skin where stratum corneum and epidermal layers are thickened. There is no involvement of non-palmoplantar skin, and both hair and nails are normal.

序列相似性	Belongs to the intermediate filament family.
翻译后修饰	Undergoes deimination of some arginine residues (citrullination).
细胞定位	Cell membrane. Located on plasma membrane of neuroblastoma NMB7 cells.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 1 antibody [EPR17744] (ab185628)

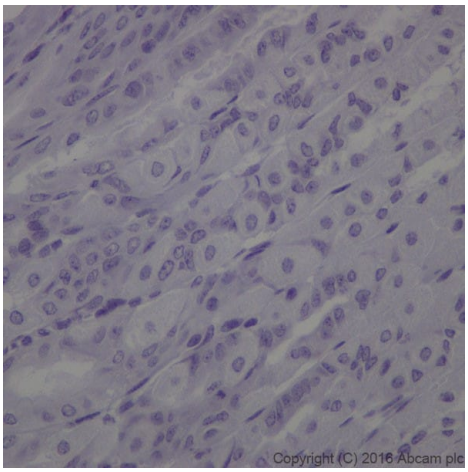
Immunohistochemical analysis of paraffin-embedded mouse skin tissue labeling Cytokeratin 1 with ab185628 at 1/600 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Cytoplasm staining on mouse skin is observed (PMID: 12010363).

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



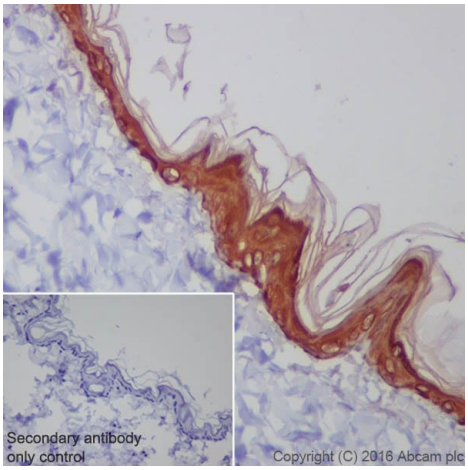
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 1 antibody [EPR17744] (ab185628)

Immunohistochemical analysis of paraffin-embedded mouse stomach tissue labeling Cytokeratin 1 with ab185628 at 1/600 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Negative Control: No staining on mouse stomach.

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 1 antibody [EPR17744] (ab185628)

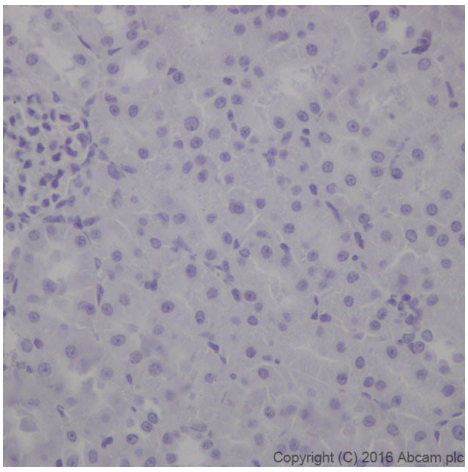
Immunohistochemical analysis of paraffin-embedded rat skin tissue labeling Cytokeratin 1 with ab185628 at 1/600 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Cytoplasm staining on rat skin is observed (PMID: 12010363).

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



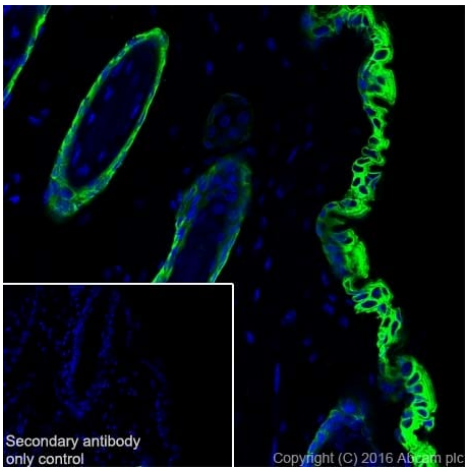
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 1 antibody [EPR17744] (ab185628)

Immunohistochemical analysis of paraffin-embedded rat kidney tissue labeling Cytokeratin 1 with ab185628 at 1/600 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Negative Control: No staining on rat kidney.

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



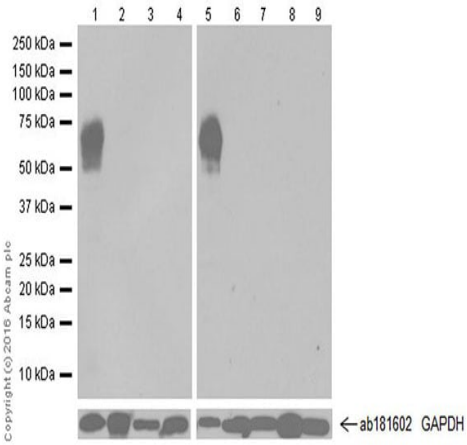
Immunohistochemistry (Frozen sections) - Anti-Cytokeratin 1 antibody [EPR17744] (ab185628)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen mouse skin tissue section labeling Cytokeratin 1 with ab185628 at 1/200 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

The result showed cytoplasmic staining on mouse skin.

The nuclear counter stain is DAPI (blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.



Western blot - Anti-Cytokeratin 1 antibody [EPR17744] (ab185628)

All lanes : Anti-Cytokeratin 1 antibody [EPR17744] (ab185628) at 1/20000 dilution

Lane 1 : Mouse skin lysate
Lane 2 : Mouse brain lysate
Lane 3 : Mouse spleen lysate
Lane 4 : Mouse heart lysate
Lane 5 : Rat skin lysate
Lane 6 : Rat brain lysate
Lane 7 : Rat spleen lysate
Lane 8 : C6 (Rat glial tumor cell line) whole cell lysate
Lane 9 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

Lysates/proteins at 10 µg per lane.

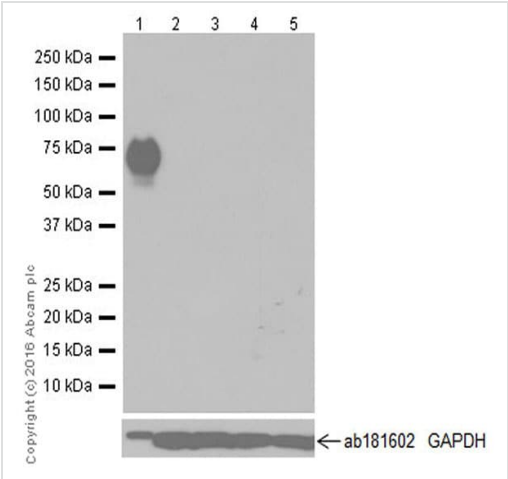
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 66 kDa
Observed band size: 66 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1-4: 30 seconds; Lane 5-9: 3 minutes.

Cytokeratin 1 is expressed in terminally differentiating epidermis (PMID: 2580302).



Western blot - Anti-Cytokeratin 1 antibody [EPR17744] (ab185628)

All lanes : Anti-Cytokeratin 1 antibody [EPR17744] (ab185628) at 1/20000 dilution

Lane 1 : Human skin lysate
Lane 2 : Human fetal brain lysate
Lane 3 : Human fetal heart lysate
Lane 4 : Human fetal kidney lysate
Lane 5 : Human spleen lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 66 kDa
Observed band size: 66 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Cytokeratin 1 is expressed in terminally differentiating epidermis (PMID: 2580302).

Anti-Cytokeratin 1 antibody [EPR17744] (ab185628)

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