

Datasheet for ABIN5518769

anti-Cytokeratin 18 antibody (AA 204-430)



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Overview

Quantity:	100 µg
Target:	Cytokeratin 18 (KRT18)
Binding Specificity:	AA 204-430
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cytokeratin 18 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Anti-Cytokeratin 18/KRT18 Antibody Picoband®
Immunogen:	E.coli-derived human Cytokeratin 18 recombinant protein (Position: E204-H430). Human Cytokeratin 18 shares 87.7% and 85.9% amino acid (aa) sequence identity with mouse and rat Cytokeratin 18, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Cytokeratin 18/KRT18 Antibody Picoband® (ABIN5518769). Tested in Flow Cytometry, IF, IHC, IHC-F, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-

Product Details

performing antibodies are designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: Cytokeratin 18 (KRT18)

Alternative Name: KRT18 ([KRT18 Products](#))

Background: Synonyms: Keratin, type I cytoskeletal 18,Cell proliferation-inducing gene 46 protein,Cytokeratin-18,CK-18,Keratin-18,K18,KRT18,CYK18,PIG46,

Tissue Specificity: Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma. .

Background: Keratin 18, mapped to 12q13.13, is a type I cytokeratin. It is, together with its filament partner keratin 8, perhaps the most commonly found products of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene.

Molecular Weight: 48 kDa

Gene ID: 3875

UniProt: [P05783](#)

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat
Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat
Immunohistochemistry(Frozen Section), 0.5-1 µg/mL, Human
Immunocytochemistry, 0.5-1 µg/mL, Human
Immunofluorescence, 2 µg/mL, Human
Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human
1. "Entrez Gene: KRT18 keratin 18". 2. Ku, N.-O., Wright, T. L., Terrault, N. A., Gish, R., Omary, M. B. Mutation of human keratin 18 in association with cryptogenic cirrhosis. J. Clin. Invest. 99: 19-23, 1997. 3. Ku, N.-O., Darling, J. M., Krams, S. M., Esquivel, C. O., Keefe, E. B., Sibley, R. K., Lee, Y. M., Wright, T. L., Omary, M. B. Keratin 8 and 18 mutations are risk factors for developing liver disease of multiple etiologies. Proc. Nat. Acad. Sci. 100: 6063-6068, 2003.

Application Details

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg NaN₃.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in: Li, Li, Sun, Wu, Wang: "Comparison of the effect of recombinant bovine wild and mutant lipopolysaccharide-binding protein in lipopolysaccharide-challenged bovine mammary epithelial cells." in: **Cell stress & chaperones**, Vol. 21, Issue 3, pp. 439-52, (2017) ([PubMed](#)).

Zhang, Liu, Liu, Zhou, Song, Cao, An: "miR-182 aids in receptive endometrium development in dairy goats by down-regulating PTN expression." in: **PLoS ONE**, Vol. 12, Issue 7, pp. e0179783, (2017) ([PubMed](#)).

Wu, Guo, Hui, Ye, Xiang, Wan, Zou, Ma, Sun, Yang, Guo: "Stanniocalcin-1 protects bovine intestinal epithelial cells from oxidative stress-induced damage." in: **Journal of veterinary science**, Vol. 15, Issue 4, pp. 475-83, (2015) ([PubMed](#)).

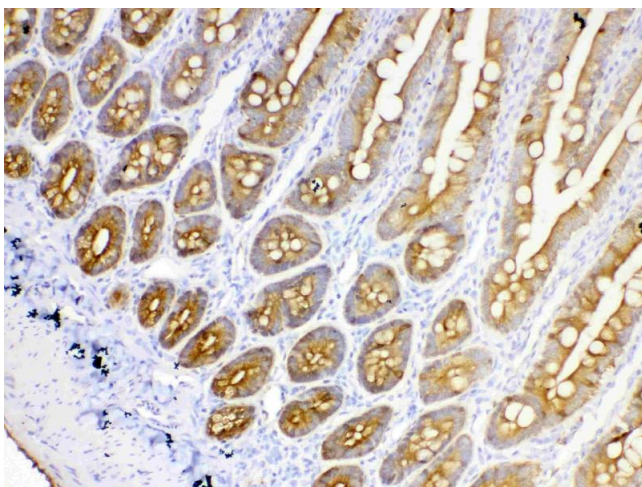
Xu, Jin, Min, Li, Deng, Wu, Lin, Chen, Zhang, Li, Wang, Zhu, Wang, Chu, Shen, Li, Mao: "Chloride channel-3 promotes tumor metastasis by regulating membrane ruffling and is associated with

poor survival." in: **Oncotarget**, Vol. 6, Issue 4, pp. 2434-50, (2015) ([PubMed](#)).

Yao, Guo, Wang, Xu, Zhang, Li, Lai: "The Paracrine Effect of Transplanted Human Amniotic Epithelial Cells on Ovarian Function Improvement in a Mouse Model of Chemotherapy-Induced Primary Ovarian Insufficiency." in: **Stem cells international**, Vol. 2016, pp. 4148923, (2015) ([PubMed](#)).

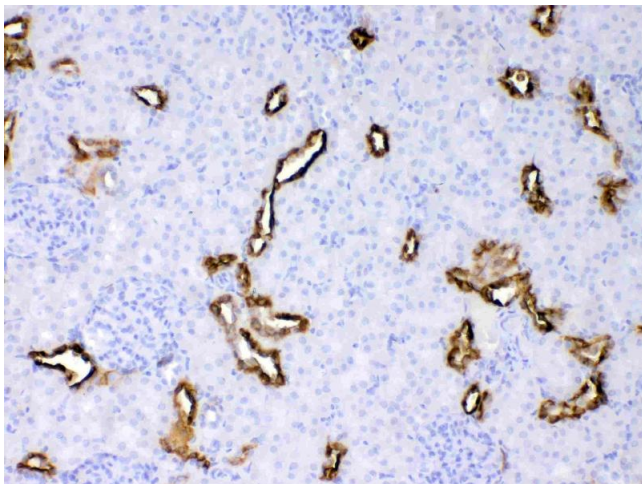
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Images



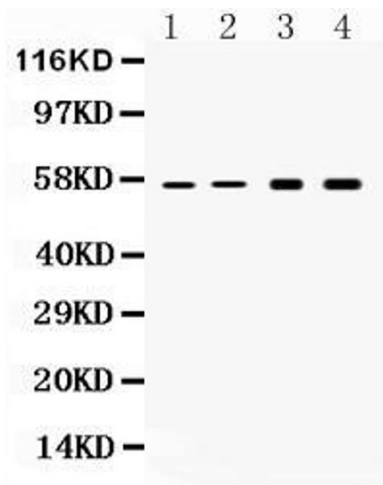
Immunohistochemistry

Image 1. Cytokeratin 18 was detected in paraffin-embedded sections of rat intestine tissues using rabbit anti-Cytokeratin 18 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 2. Cytokeratin 18 was detected in paraffin-embedded sections of rat kidney tissues using rabbit anti- Cytokeratin 18 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Western Blotting

Image 3. Western blot analysis of Cytokeratin 18 expression in rat liver extract (Lane 1), mouse liver extract (Lane 2), HELA whole cell lysates (Lane 3) and HEPG2 whole cell lysates (Lane 4). Cytokeratin 18 at 55KD was detected using rabbit anti- Cytokeratin 18 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN5518769.