

Datasheet for ABIN4886654

anti-Cytokeratin 5 antibody (Middle Region)



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Overview

Quantity:	100 µg
Target:	Cytokeratin 5 (KRT5)
Binding Specificity:	AA 286-317, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cytokeratin 5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Cytokeratin 5/KRT5 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Cytokeratin 5, different from the related mouse sequence by one amino acid, and identical to the related rat sequence.
Sequence:	KVELEAKVDA LMDEINFMKM FFDAELSQQM TH
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Cytokeratin 5/KRT5 Antibody Picoband® (ABIN4886654). Tested in IHC, WB applications. This antibody reacts with Human. 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-performing antibodies are designated as Picoband,

Product Details

ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: Cytokeratin 5 (KRT5)

Alternative Name: KRT5 ([KRT5 Products](#))

Background: Synonyms: Keratin, type II cytoskeletal 5,58 kDa cytokeratin,Cytokeratin-5,CK-5,Keratin-5,K5,Type-II keratin Kb5,KRT5,
Tissue Specificity: Present in kidney, lung, testis and placenta, very low levels in liver.
Background: Cytokeratin 5, also known as KRT5, K5, or CK5, is a protein that is encoded in humans by the KRT5 gene. The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. Mutations in these genes have been associated with a complex of diseases termed epidermolysis bullosa simplex. The type II cytokeratins are clustered in a region of chromosome 12q12-q13.

Molecular Weight: 62 kDa

Gene ID: 3852

UniProt: [P13647](#)

Application Details

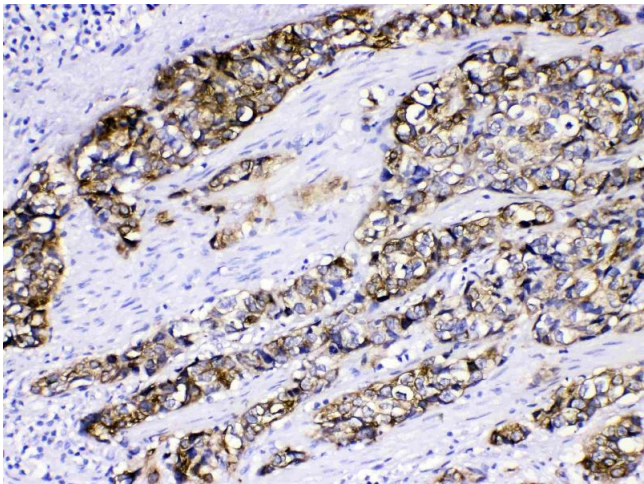
Application Notes: Western blot, 0.1-0.5 µg/mL, Human
Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human
1. "Entrez Gene: KRT5 keratin 5 (epidermolysis bullosa simplex, Dowling-Meara/Kobner/Weber-Cockayne types)". 2. Eckert RL, Rorke EA (Jun 1988). "The sequence of the human epidermal 58-kD (#5) type II keratin reveals an absence of 5' upstream sequence conservation between coexpressed epidermal keratins". Dna. 7 (5): 337-45. 3. Lersch R, Fuchs E (Jan 1988). "Sequence and expression of a type II keratin, K5, in human epidermal cells". Molecular and Cellular Biology. 8 (1): 486-93.

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

Application Details

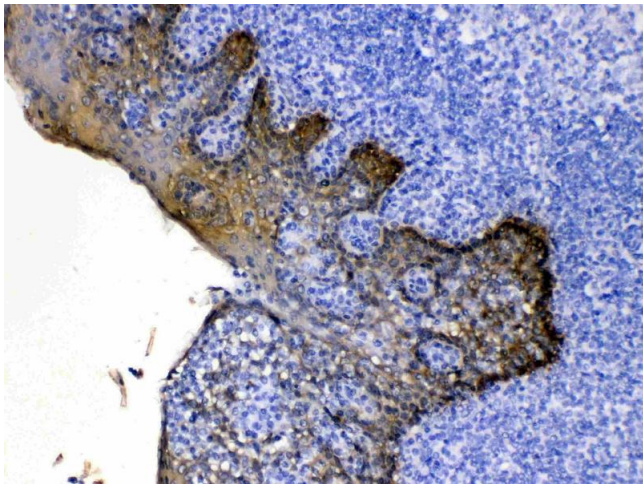
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
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.

Images



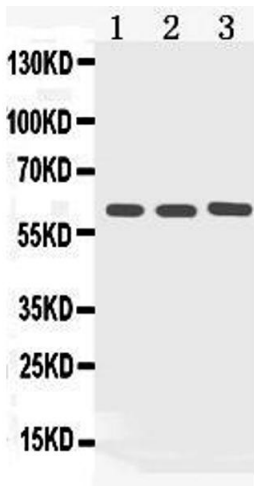
Immunohistochemistry

Image 1. Cytokeratin 5 was detected in paraffin-embedded sections of human oesophagus squama cancer tissues using rabbit anti- Cytokeratin 5 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 2. Cytokeratin 5 was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti-Cytokeratin 5 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 5 expression in rat kidney extract (Lane 1), COLO320 whole cell lysates (Lane 2) and HELA whole cell lysates (Lane 3). Cytokeratin 5 at 62KD was detected using rabbit anti- Cytokeratin 5 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).