10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Cytokeratin 5 Picoband Antibody

Catalog # ABO10071

Specification

Anti-Cytokeratin 5 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P13647
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Keratin, type II cytoskeletal 5(KRT5) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Cytokeratin 5 Picoband Antibody - Additional Information

Gene ID 3852

Other Names
Keratin, type II cytoskeletal 5, 58 kDa cytokeratin, Cytokeratin-5, CK-5, Keratin-5, K5, Type-II keratin Kb5, KRT5

Calculated MW
62378 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse

Protein Name
Keratin, type II cytoskeletal 5

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human Cytokeratin 5 (286-317aa KVELEAKVDALMDEINFMKMFFDAELSQMQTH), different from the related mouse sequence by one amino acid, and identical to the related rat sequence.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-Cytokeratin 5 Picoband Antibody - Protein Information

Name KRT5

Function
Required for the formation of keratin intermediate filaments in the basal epidermis and maintenance of the skin barrier in response to mechanical stress (By similarity). Regulates the recruitment of Langerhans cells to the epidermis, potentially by modulation of the abundance of macrophage chemotactic cytokines, macrophage inflammatory cytokines and CTNND1 localization in keratinocytes (By similarity).

Cellular Location
Cytoplasm.

Tissue Location
Expressed in corneal epithelium (at protein level) (PubMed:26758872). Expressed in keratinocytes (at protein level) (PubMed:20128788, PubMed:31302245).

Anti-Cytokeratin 5 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Cytokeratin 5 Picoband Antibody - Images

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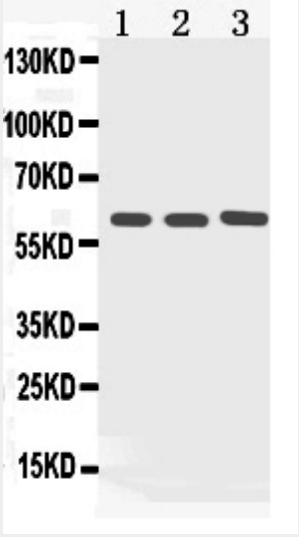
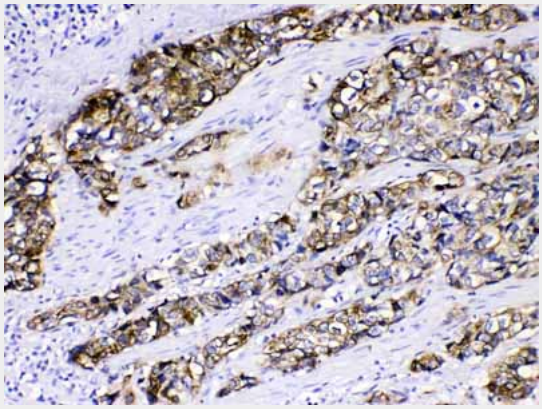


Western blot analysis of Cytokeratin 5 expression in rat kidney extract (lane 1), COLO320 whole cell lysates (lane 2) and HELA whole cell lysates (lane 3). Cytokeratin 5 at 62KD was detected using rabbit anti- Cytokeratin 5 Antigen Affinity purified polyclonal antibody (Catalog # ABO10071) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .

Cytokeratin 5 was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti- Cytokeratin 5 Antigen Affinity purified polyclonal antibody (Catalog # ABO10071) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .



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 # ABO10071) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

Anti-Cytokeratin 5 Picoband Antibody - Background

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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.