

# Cytokeratin 15 Recombinant monoclonal antibody

Catalog Number: 86761-3-RR

## Basic Information

|                                                                |                                              |                                                                        |
|----------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------|
| <b>Catalog Number:</b><br>86761-3-RR                           | <b>GenBank Accession Number:</b><br>BC002641 | <b>Purification Method:</b><br>Protein A purification                  |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>3866                | <b>CloneNo.:</b><br>251445H2                                           |
| <b>Source:</b><br>Rabbit                                       | <b>UNIPROT ID:</b><br>P19012                 | <b>Recommended Dilutions:</b><br>WB: 1:500-1:2000<br>IHC: 1:500-1:2000 |
| <b>Isotype:</b><br>IgG                                         | <b>Full Name:</b><br>keratin 15              |                                                                        |
|                                                                | <b>Calculated MW:</b><br>49 kDa              |                                                                        |
|                                                                | <b>Observed MW:</b><br>46-50 kDa             |                                                                        |

## Applications

|                                                                                                                                                             |                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Tested Applications:</b><br>WB, IHC, ELISA                                                                                                               | <b>Positive Controls:</b>                         |
| <b>Species Specificity:</b><br>human, mouse                                                                                                                 | <b>WB :</b> HaCaT cells, mouse skin tissue        |
| <b>Note-IHC:</b> <i>suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</i> | <b>IHC :</b> mouse skin tissue, human skin tissue |

## Background Information

Cytokeratin 15 (CK15, encoded by KRT15) is a type I intermediate filament protein belonging to the keratin family. It is predominantly expressed in the basal and suprabasal layers of stratified epithelia, with particularly strong expression in the bulge region of the hair follicle, a well-characterized niche for epithelial stem cells. CK15 serves as a reliable marker for quiescent stem cells in various tissues, including the skin, mammary gland, and prostate, and its expression is often maintained during early stages of epithelial differentiation. In pathological contexts, CK15 is utilized as an immunohistochemical marker to distinguish basal cell carcinomas from other cutaneous neoplasms and to identify subsets of aggressive breast and prostate cancers. Its role in maintaining stem cell properties and tissue homeostasis makes it a valuable tool in both developmental biology and diagnostic pathology.

## Storage

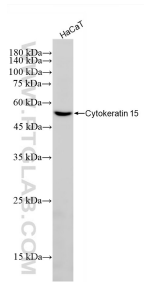
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

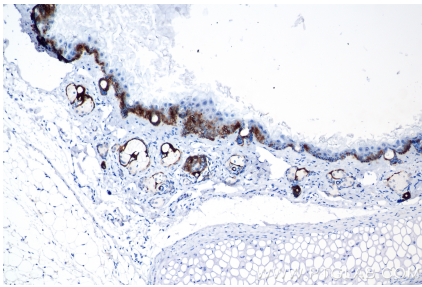
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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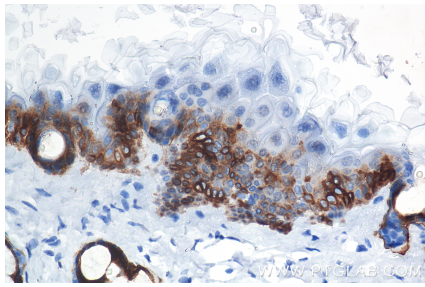
Selected Validation Data



HaCaT cells were subjected to SDS PAGE followed by western blot with 86761-3-RR (Cytokeratin 15 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 86761-3-RR (Cytokeratin 15 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 86761-3-RR (Cytokeratin 15 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).