

For Research Use Only

Cytokeratin 15 Recombinant monoclonal antibody

Catalog Number: 86761-3-RR



Basic Information

Catalog Number:

86761-3-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC002641

GeneID (NCBI):

3866

UNIPROT ID:

P19012

Full Name:

keratin 15

Calculated MW:

49 kDa

Observed MW:

46-50 kDa

Purification Method:

Protein A purification

CloneNo.:

251445H2

Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:500-1:2000

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : HaCaT cells, mouse skin tissue

IHC : mouse skin tissue, human skin tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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

For technical support and original validation data for this product please contact:

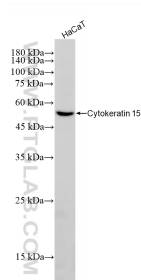
T: 4006900926

E: Proteintech-CN@ptglab.com

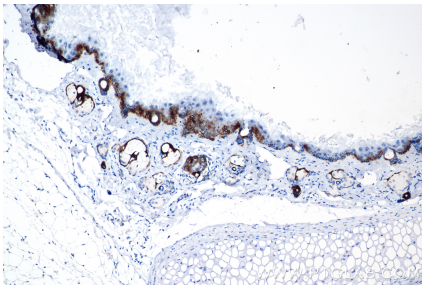
W: ptgcn.com

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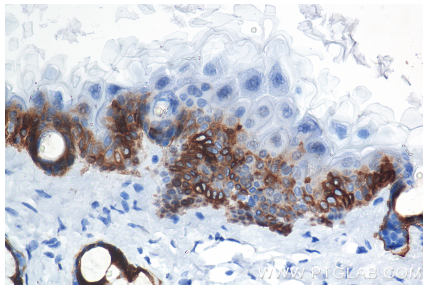
Selected Validation Data



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).