

For Research Use Only

Cytokeratin 40 Recombinant monoclonal antibody

Catalog Number: 86531-2-RR



Basic Information

Catalog Number:

86531-2-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC150191

GeneID (NCBI):

125115

UNIPROT ID:

Q6A162

Full Name:

keratin 40

Calculated MW:

431 aa, 48 kDa

Observed MW:

48 kDa

Purification Method:

Protein A purification

CloneNo.:

251245C5

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : 5637 cells, MCF-7 cells, HaCaT cells

Background Information

Keratin 40 (KRT40) is a type I (acidic) keratin protein encoded by the KRT40 gene located on human chromosome 17q21.2. As a member of the intermediate filament (IF) protein superfamily, keratin 40 contributes to the cytoskeletal framework of epithelial cells, forming heteropolymeric filaments that provide mechanical support and structural integrity to tissues such as hair follicles, wool fibers, and certain glandular epithelia. KRT40 is expressed at relatively low levels under normal physiological conditions, but its expression becomes significant in specialized contexts. In hair biology, KRT40 is considered a hub gene involved in hair follicle development, cell cycle regulation, and melanogenesis, with its transcripts localized specifically to the fiber cuticle in species like sheep and yak, indicating a structural role in hair shaft formation.

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:

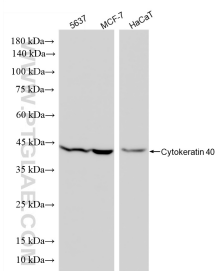
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86531-2-RR (KRT40 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.