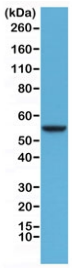
CK8 Antibody / Cytokeratin 8 [clone RM266] (R20283)

Catalog No.	Formulation	Size
R20283-0.1ML	Antibody in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	100 ul

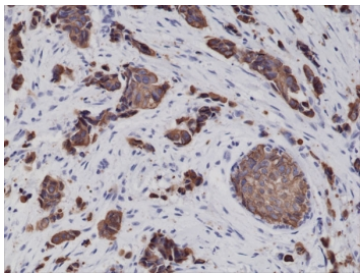
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM266
Purity	Protein A purified from animal origin-free supernatant
UniProt	P05787
Gene ID	3856
Applications	Immunohistochemistry (FFPE): 1:1000-1:2000 (1) Western blot: 1:1000-1:2000
Limitations	This CK8 / Cytokeratin 8 antibody is available for research use only.



CK8 Antibody HeLa Western Blot. Western blot analysis of human HeLa cell lysate using recombinant CK8 Antibody (clone RM266) at a 1:1000 dilution demonstrates a distinct band at approximately 56 kDa, consistent with the expected molecular weight of Cytokeratin 8 (CK8/KRT8). Cytokeratin 8 is a type II intermediate filament protein widely expressed in simple epithelial cells and epithelial-derived malignancies, where it contributes to cytoskeletal organization, cellular integrity, and stress-response signaling. Detection of the expected molecular weight band supports expression of CK8 in HeLa cells and demonstrates the suitability of recombinant clone RM266 for western blot applications.



CK8 Antibody Breast Cancer IHC. Immunohistochemical staining of FFPE human breast cancer tissue using recombinant CK8 Antibody (clone RM266) at a 1:2000 dilution demonstrates strong cytoplasmic and membranous HRP-DAB brown staining within malignant epithelial cells. The staining pattern is consistent with expression of Cytokeratin 8 (CK8/KRT8), a type II intermediate filament protein widely expressed in simple epithelial tissues and epithelial-derived carcinomas. CK8 immunoreactivity highlights neoplastic epithelial cell populations and supports evaluation of epithelial differentiation and tumor-associated cytoskeletal organization in breast cancer specimens.

Description

CK8 antibody is useful for studying Cytokeratin 8 (CK8/KRT8), a type II intermediate filament protein that serves as a major structural component of simple epithelial cells. Cytokeratin 8 typically forms heteropolymeric intermediate filaments through association with Cytokeratin 18, creating a cytoskeletal network that supports cellular architecture, mechanical stability, and resistance to physiologic stress. As one of the most widely expressed epithelial cytokeratins, CK8 plays an important role in epithelial tissue integrity and cellular homeostasis.

Cytokeratin 8 is expressed in numerous simple epithelial tissues, including the gastrointestinal tract, respiratory epithelium, liver, pancreas, kidney, and many glandular structures. In addition to providing structural support, CK8 participates in cellular processes involving signal transduction, apoptosis, migration, differentiation, and stress-response pathways. Interactions between Cytokeratin 8 and intracellular signaling proteins have demonstrated that intermediate filament proteins contribute to cellular regulation beyond their traditional structural functions.

CK8 is widely used as a marker of epithelial lineage and differentiation in both research and diagnostic pathology. Because Cytokeratin 8 expression is retained in many epithelial-derived malignancies, antibodies against CK8 are frequently employed to identify carcinomas and distinguish epithelial tumors from mesenchymal, hematopoietic, or neuroectodermal neoplasms. Evaluation of CK8 expression can provide valuable information regarding tissue origin, epithelial phenotype, and tumor-associated cellular characteristics.

Altered expression or distribution of Cytokeratin 8 has been associated with epithelial injury, inflammation, tissue remodeling, and cancer progression. Changes in CK8 expression patterns have been observed in a variety of malignancies and may reflect alterations in differentiation status, invasive potential, and cellular adaptation to stress. Consequently, Cytokeratin 8 remains an important biomarker in studies examining epithelial biology, tumor development, and disease-associated changes in cytoskeletal organization.

Because of its broad epithelial distribution, CK8 is frequently incorporated into multi-marker antibody panels designed for tissue classification, tumor characterization, and studies of epithelial differentiation. Cytokeratin 8 is often evaluated alongside other cytokeratin family members to assess epithelial lineage relationships and phenotypic alterations occurring during development, disease progression, and cellular transformation.

CK8 antibodies are commonly utilized in immunohistochemistry, western blotting, immunofluorescence, flow cytometry, and related protein detection applications. These reagents support investigations of epithelial cell biology, intermediate filament organization, carcinoma pathology, tissue differentiation, and cellular stress responses. CK8 antibody tools help researchers characterize epithelial populations, evaluate tumor-associated expression patterns, and investigate the biologic functions of this important cytoskeletal protein.

Researchers seeking protein microarray validated detection of Keratin 8 for epithelial differentiation, cytoskeletal biology, and cancer research applications may also be interested in our Cytokeratin 8 Antibody page.

Application Notes

The stated application concentrations are suggested starting points. Titration of the CK8 antibody may be required due to

differences in protocols and secondary/substrate sensitivity.

1. A pH6 Citrate buffer or pH9 Tris/EDTA buffer HIER step is recommended for testing of FFPE tissue sections.

Immunogen

A peptide corresponding to the C-terminus of human Cytokeratin 8 was used as the immunogen for this recombinant CK8 antibody.

Storage

Store the CK8 antibody at -20oC (with glycerol) or aliquot and store at -20oC (without glycerol).

Alternate Names

Cytokeratin 8 Antibody, Keratin 8 Antibody, KRT8 Antibody, Keratin Type II Cytoskeletal 8 Antibody, Simple Epithelial Keratin Antibody, Intermediate Filament Protein 8 Antibody

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