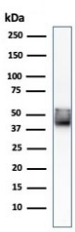
Keratin 8 Antibody / Cytokeratin 8 / CK8 [clone KRT8/803] (V2664)

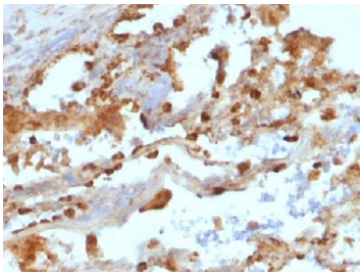
Catalog No.	Formulation	Size
V2664-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2664-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2664SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2664IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

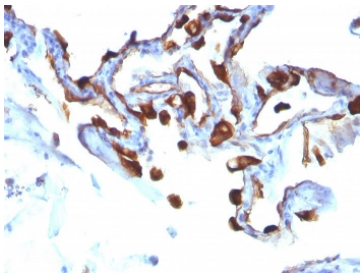
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KRT8/803
Purity	Protein G affinity chromatography
UniProt	P05787
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 1-2ug/ml
Limitations	This Keratin 8 antibody is available for research use only.



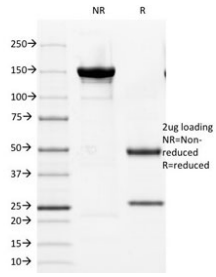
Keratin 8 Antibody HCT-116 Western Blot. Western blot analysis of human HCT-116 cell lysate using Keratin 8 Antibody (clone KRT8/803) demonstrates a prominent band at approximately 52 kDa, consistent with the expected molecular weight of Cytokeratin 8 (KRT8). Cytokeratin 8 is a type II intermediate filament protein widely expressed in simple epithelial cells and epithelial-derived tumors, where it contributes to cytoskeletal organization, cellular integrity, and stress-response signaling pathways. Detection of the expected molecular weight band supports expression of Cytokeratin 8 in HCT-116 cells and the suitability of clone KRT8/803 for western blot applications.



Keratin 8 Antibody Lung Carcinoma IHC. Immunohistochemical staining of FFPE human lung carcinoma tissue using Keratin 8 Antibody (clone KRT8/803) demonstrates strong cytoplasmic HRP-DAB brown staining within malignant epithelial cells. The staining pattern is consistent with expression of Cytokeratin 8 (KRT8), a type II intermediate filament protein widely expressed in simple epithelial tissues and epithelial-derived malignancies. Cytokeratin 8 immunoreactivity highlights neoplastic epithelial cell populations and supports evaluation of epithelial differentiation in lung carcinoma specimens.



Keratin 8 Antibody Lung Carcinoma Tissue IHC. Immunohistochemical analysis of FFPE human lung carcinoma tissue using Keratin 8 Antibody (clone KRT8/803) demonstrates strong cytoplasmic and membranous HRP-DAB brown staining within malignant epithelial cells. The staining pattern is consistent with expression of Cytokeratin 8 (KRT8), a type II intermediate filament protein commonly expressed in simple epithelial tissues and epithelial-derived malignancies. Cytokeratin 8 positivity highlights tumor-associated epithelial structures and supports assessment of epithelial differentiation in lung carcinoma specimens.



SDS-PAGE analysis of purified, BSA-free Keratin 8 antibody (clone KRT8/803) as confirmation of integrity and purity.

Description

Keratin 8 antibody is useful for studying Keratin 8, also known as Cytokeratin 8 (CK8 or KRT8), a type II intermediate filament protein that forms an essential component of the cytoskeletal network in simple epithelial cells. Cytokeratin 8 typically pairs with Cytokeratin 18 to create intermediate filaments that provide structural integrity, mechanical stability, and resistance to cellular stress. As one of the most widely expressed epithelial cytokeratins, Cytokeratin 8 serves as an important marker for epithelial cell identification, differentiation, and tumor characterization in both normal tissues and neoplastic lesions.

Cytokeratin 8 is expressed in a broad range of simple epithelial tissues, including glandular epithelium, gastrointestinal tract, respiratory epithelium, liver, pancreas, and many secretory organs. The protein contributes to maintenance of cellular architecture while also participating in signaling pathways that regulate cell growth, apoptosis, migration, and stress responses. In addition to its structural role, Cytokeratin 8 interacts with numerous intracellular proteins involved in signal transduction and cytoprotection, highlighting its importance beyond cytoskeletal support alone.

Altered Cytokeratin 8 expression has been associated with epithelial injury, tissue remodeling, inflammation, and cancer progression. Changes in KRT8 expression patterns are frequently observed during epithelial transformation and tumor development, making Cytokeratin 8 a valuable biomarker in cancer research and diagnostic pathology. Antibodies targeting Cytokeratin 8 are commonly used to identify epithelial-derived tumors and to distinguish carcinomas from tumors of mesenchymal, lymphoid, or neuroectodermal origin.

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Because Keratin 8 is broadly expressed across many epithelial cell types, it is frequently included in antibody panels used for tissue classification, tumor characterization, and studies of epithelial differentiation. KRT8 expression is often evaluated alongside other cytokeratins to assess epithelial lineage, tissue origin, and phenotypic changes associated with development or disease progression. The protein is particularly valuable for investigating simple epithelial biology and epithelial-associated malignancies.

Keratin 8 antibodies are widely utilized in immunohistochemistry, western blotting, immunofluorescence, flow cytometry, and related protein detection applications. These reagents support studies of epithelial cell biology, intermediate filament organization, cancer pathology, tissue differentiation, and cellular stress responses. Keratin 8 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

Optimal dilution of the Keratin 8 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human KRT8 protein was used as the immunogen for the Keratin 8 antibody.

Storage

Store the Keratin 8 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Cytokeratin 8 Antibody, CK8 Antibody, KRT8 Antibody, Keratin Type II Cytoskeletal 8 Antibody, Simple Epithelial Keratin Antibody, Intermediate Filament Protein 8 Antibody

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