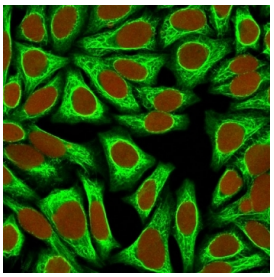
CK18 Antibody KRT18/836 / Cytokeratin 18 Monoclonal Antibody [clone KRT18/836] (V2674)

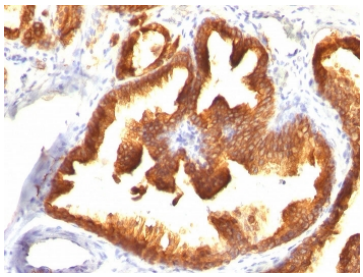
Catalog No.	Formulation	Size
V2674-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2674-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2674SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2674IHC-7ML	Prediluted 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

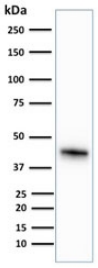
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KRT18/836
Purity	Protein G affinity chromatography
UniProt	P05783
Localization	Cytoplasmic
Applications	Western blot: 1-2ug/ml Immunofluorescence: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT (1)
Limitations	This CK18 Antibody KRT18/836 / Cytokeratin 18 Monoclonal Antibody is available for research use only.



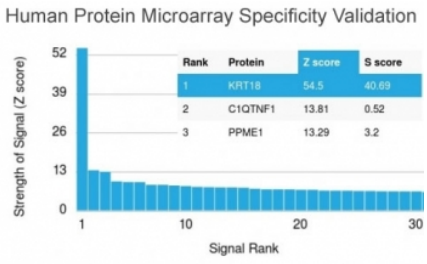
CK18 Antibody KRT18/836 by IF in human HeLa cells. Immunofluorescence staining of human HeLa cells using CK18 Antibody clone KRT18/836, detected in green, with RedDot nuclear counterstaining in red. Strong green fluorescence highlights an extensive cytoplasmic filament network surrounding the nuclei and extending throughout the cellular periphery. The staining forms a dense, interconnected pattern consistent with the organization of keratin intermediate filaments in epithelial cells. Red nuclear fluorescence provides contrast with the surrounding cytoplasmic structures. The Cytokeratin 18 Monoclonal Antibody demonstrates the expected filamentous distribution of KRT18 in this human epithelial carcinoma cell model.



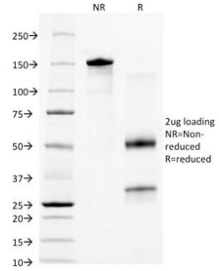
CK18 Antibody KRT18/836 by IHC in human prostate carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded human prostate carcinoma tissue using CK18 Antibody clone KRT18/836. Strong brown cytoplasmic immunoreactivity is visible throughout neoplastic glandular epithelial structures, highlighting carcinoma cells surrounding irregular luminal spaces. The staining is concentrated within the epithelial compartment, while adjacent stromal regions exhibit comparatively limited immunoreactivity. Hematoxylin counterstaining reveals nuclei in blue, providing contrast with the positively stained tumor cells. The Cytokeratin 18 Monoclonal Antibody was applied following heat-induced epitope retrieval in 10 mM Tris containing 1 mM EDTA, pH 9, for 10-20 minutes, followed by cooling at room temperature for 20 minutes.



CK18 Antibody KRT18/836 by WB in human HCT116 cells. Western blot analysis of human HCT116 colorectal carcinoma cell lysate using CK18 Antibody clone KRT18/836. A single prominent immunoreactive band is detected at approximately 40-45 kDa, migrating slightly below the predicted molecular weight of human KRT18, approximately 48 kDa. The band is clearly distinguishable against a low-background blot, with no prominent additional bands visible in the displayed molecular weight range. Molecular weight markers are provided alongside the sample lane for reference. The Cytokeratin 18 Monoclonal Antibody recognizes a protein migrating near the expected molecular weight of KRT18, supporting its use in western blot analysis of human epithelial cell lysates.



CK18 Antibody KRT18/836 by protein microarray. Protein Microarray Validated analysis of CK18 Antibody clone KRT18/836 using a HuProt human protein microarray containing more than 19,000 full-length proteins. The graph identifies KRT18 as the highest-ranking binding target, with a Z-score of approximately 54.5. The next-ranked proteins exhibit substantially lower signals, producing a clear separation between KRT18 and the remaining targets. The Cytokeratin 18 Monoclonal Antibody demonstrates strong preferential recognition of its intended antigen under the tested conditions. This result supports target selectivity in the protein microarray assay, although it does not independently establish specificity in every biological sample or experimental application.



CK18 Antibody KRT18/836 purity by SDS-PAGE. SDS-PAGE analysis of purified, BSA-free CK18 Antibody clone KRT18/836 under non-reduced (NR) and reduced (R) conditions. The non-reduced preparation exhibits a prominent band near 150 kDa, consistent with intact immunoglobulin. Under reduced conditions, a prominent band is visible near 50 kDa, corresponding to the immunoglobulin heavy chain, with an additional band near 25-30 kDa representing the light chain. Molecular weight standards are included for reference. This analysis evaluates the electrophoretic characteristics and purity of the Cytokeratin 18 Monoclonal Antibody preparation rather than detection of endogenous KRT18 protein.

Description

CK18 Antibody KRT18/836 / Cytokeratin 18 Monoclonal Antibody recognizes keratin 18, an acidic type I intermediate filament protein encoded by the human KRT18 gene. Cytokeratin 18 is characteristic of simple epithelial cells and contributes to the organization of cytoplasmic filament networks that maintain cellular architecture. It typically associates with keratin 8, a type II intermediate filament protein, forming heteropolymeric structures that provide mechanical support and participate in the organization of intracellular components.

The distribution of KRT18 reflects epithelial lineage and differentiation. It is expressed in glandular epithelia and numerous internal organs, including the liver, pancreas, gastrointestinal tract, respiratory system, and reproductive tissues. In contrast, mature stratified squamous epithelia generally exhibit different keratin expression profiles. These distinctions make cytokeratin expression patterns informative for investigating epithelial identity and the relationship between tissue structure and cellular specialization.

In carcinoma research, CK18 is frequently examined alongside other epithelial markers to characterize tumor differentiation. Many adenocarcinomas retain expression of keratins 8 and 18, reflecting their origin from simple or glandular epithelial populations. Tumors arising in the breast, colon, lung, pancreas, and prostate may demonstrate KRT18 immunoreactivity, although expression intensity and distribution vary with histological subtype and differentiation state. CK18 Antibody KRT18/836 is relevant to studies examining these epithelial characteristics.

Changes in cytokeratin organization can accompany malignant transformation, altered cell polarity, and cytoskeletal remodeling. Keratin filament networks interact with cellular junctions and other structural systems, influencing epithelial integrity during physiological stress. KRT18 expression may persist during tumor progression even when other differentiation-associated proteins become altered. Nevertheless, CK18 is not specific to a particular carcinoma, and its detection should be interpreted alongside tissue morphology and complementary markers.

NSJ Bioreagents provides CK18 Antibody KRT18/836 for investigating human epithelial tissues and carcinoma models. This mouse monoclonal antibody was generated using recombinant human KRT18 protein. The Cytokeratin 18 Monoclonal Antibody supports research examining epithelial lineage, glandular differentiation, and the organization of intermediate filament networks in normal and neoplastic cells.

Explore our Cytokeratin 18 Antibody KRT18/835 for additional research into KRT18 expression, epithelial differentiation, and cytoskeletal organization in normal tissues and carcinomas.

Application Notes

Optimal dilution of the CK18 Antibody KRT18/836 / Cytokeratin 18 Monoclonal Antibody should be determined by the researcher.

1. 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 KRT18 protein was used as the immunogen for the CK18 antibody.

Storage

Store the CK18 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Cytokeratin 18 antibody, Keratin 18 antibody, KRT18 antibody, K18 antibody, Keratin-18 antibody, Cytokeratin-18 antibody, Type I Cytoskeletal Keratin 18 antibody

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