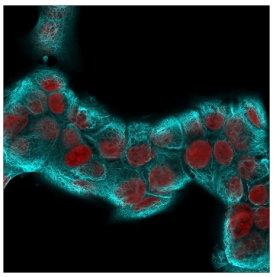
# KRT18 Antibody KRT18/2819R / Keratin 18 Rabbit Monoclonal Antibody [clone KRT18/2819R] (V7299)

| Catalog No. | Formulation | Size |
|---|---|---|
| V7299-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V7299-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V7299SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V7299IHC-7ML | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml |

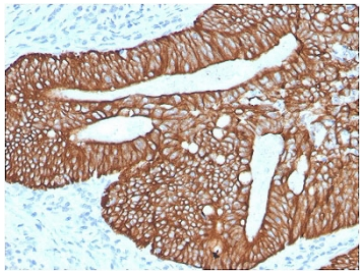
Recombinant RABBIT MONOCLONAL

**Bulk quote request**

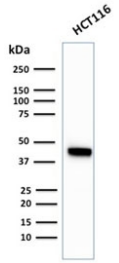
| | |
|---|---|
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Recombinant Rabbit Monoclonal |
| **Isotype** | Rabbit IgG, kappa |
| **Clone Name** | KRT18/2819R |
| **Purity** | Protein A affinity chromatography |
| **UniProt** | P05783 |
| **Localization** | Cytoplasmic |
| **Applications** | Flow cytometry: 1-2ug/10^6 cells<br>Western blot: 1-2ug/ml<br>Immunofluorescence: 1-2ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT |
| **Limitations** | This KRT18 Antibody KRT18/2819R / Keratin 18 Rabbit Monoclonal Antibody is available for research use only. |



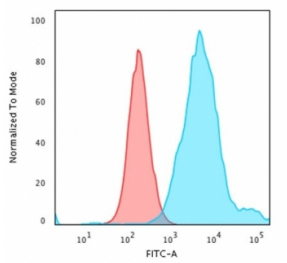
KRT18 Antibody KRT18/2819R by IF in human MCF7 cells. Immunofluorescence staining of permeabilized human MCF7 breast carcinoma cells using KRT18 Antibody clone KRT18/2819R, detected in cyan-blue, with RedDot nuclear counterstaining in red. Cytoplasmic fluorescence highlights a filamentous network surrounding the nuclei and extending toward the cell periphery. The staining is particularly prominent along portions of the cytoplasmic margins and within interconnected filament structures. Red nuclear staining provides contrast with the surrounding cytoplasmic signal. The Keratin 18 Rabbit Monoclonal Antibody demonstrates the characteristic cytoplasmic organization of KRT18 intermediate filaments in this human epithelial carcinoma cell model.



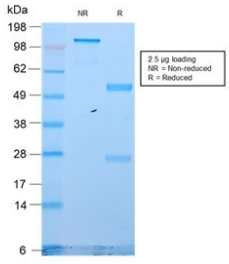
KRT18 Antibody KRT18/2819R by IHC in human colon carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded human colon carcinoma tissue using KRT18 Antibody clone KRT18/2819R. Strong brown cytoplasmic immunoreactivity highlights numerous neoplastic glandular epithelial cells arranged around irregular luminal spaces. The staining is widespread throughout the carcinoma epithelium, while the surrounding stromal tissue exhibits comparatively limited immunoreactivity. Hematoxylin counterstaining reveals nuclei in blue. The Keratin 18 Rabbit Monoclonal Antibody demonstrates KRT18 expression within the glandular epithelial compartment of colorectal carcinoma. Heat-induced epitope retrieval was performed using 10 mM Tris containing 1 mM EDTA, pH 9, for 10-20 minutes, followed by cooling before antibody incubation.



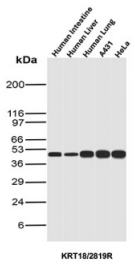

KRT18 Antibody KRT18/2819R by WB in human HCT116 cells. Western blot analysis of human HCT116 colorectal carcinoma cell lysate using KRT18 Antibody clone KRT18/2819R. A single prominent immunoreactive band is detected at approximately 42 kDa, migrating below the predicted molecular weight of human KRT18, approximately 48 kDa. Molecular weight markers are displayed alongside the sample lane, with the detected band positioned between the 37 and 50 kDa markers. The blot exhibits relatively low background without prominent additional bands. Although KRT18 can undergo proteolytic processing, the identity of this lower-migrating band has not been established. The Keratin 18 Rabbit Monoclonal Antibody demonstrates detectable immunoreactivity in HCT116 cell lysate.




KRT18 Antibody KRT18/2819R by FACS in human HeLa cells. Flow cytometric analysis of paraformaldehyde-fixed human HeLa cells using KRT18 Antibody clone KRT18/2819R. The cyan-blue histogram represents antibody-stained cells, while the red histogram represents the isotype control. The antibody-stained population exhibits a pronounced rightward fluorescence shift relative to the control, with its principal peak occurring at substantially higher fluorescence intensity. The two distributions show limited overlap, indicating clear separation between antibody-associated fluorescence and control staining. The Keratin 18 Rabbit Monoclonal Antibody demonstrates detection of KRT18-associated fluorescence in fixed human HeLa cells under the tested conditions.




SDS-PAGE analysis of purified, BSA-free recombinant Cytokeratin 18 antibody (clone KRT18/2819R) as confirmation of integrity and purity.




Western Blot Analysis of Human Intestine, Human Liver, Human Lung, A431, and HeLa lysates using KRT18 Antibody KRT18/2819R.

## Description

KRT18 Antibody KRT18/2819R / Keratin 18 Rabbit Monoclonal Antibody recognizes keratin 18, a type I intermediate filament protein encoded by the KRT18 gene. Keratin 18 is expressed predominantly in simple epithelial cells, where it forms heteropolymeric intermediate filaments with the type II keratin KRT8. These filament networks contribute to mechanical stability, intracellular organization, and the maintenance of epithelial architecture. KRT18 is widely distributed in glandular and simple epithelia, including the gastrointestinal tract, liver, pancreas, respiratory system, and reproductive organs.

Intermediate filaments are dynamic structures that undergo reorganization in response to cellular differentiation and stress. KRT18 interacts with other cytoskeletal components and participates in maintaining epithelial polarity and structural integrity. Its association with KRT8 is particularly important because type I and type II keratins assemble together to form stable filament networks. Disruption of these interactions can alter epithelial resilience and influence cellular responses to mechanical or biochemical stress.

In epithelial tumors, KRT18 expression often reflects the differentiation characteristics of the tissue of origin. Many adenocarcinomas retain keratin 18 expression, including tumors arising in the breast, colon, lung, pancreas, and prostate. Changes in intermediate filament organization may accompany tumor progression, altered cell adhesion, and cytoskeletal remodeling. However, KRT18 is not specific to individual carcinoma types, and its detection should be interpreted alongside additional epithelial markers and tissue morphology.

Keratin 18 is also involved in cellular responses to apoptosis. Caspase-mediated cleavage of KRT18 produces fragments that have been investigated as biomarkers of epithelial cell death. These cleavage products are particularly relevant to studies of liver injury and cancer treatment responses. Antibodies recognizing total KRT18 should be distinguished from those specifically directed against caspase-generated neoepitopes, since detection of the intact protein does not independently establish apoptotic cleavage.

NSJ Bioreagents provides KRT18 Antibody KRT18/2819R for research examining epithelial intermediate filament expression and organization. This recombinant rabbit monoclonal antibody offers an alternative host species for investigating KRT18 in epithelial tissues and carcinoma models. The Keratin 18 Rabbit Monoclonal Antibody supports studies of cytoskeletal remodeling, epithelial differentiation, and the cellular responses associated with tissue injury and malignancy.

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 KRT18 Antibody KRT18/2819R / Keratin 18 Rabbit 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

Full length recombinant human protein was used as the immunogen for the KRT18 Antibody KRT18/2819R.

## Storage

Store the KRT18 Antibody KRT18/2819R at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

## Alternate Names

Cytokeratin 18 antibody, Keratin 18 antibody, CK18 antibody, K18 antibody, Cytokeratin-18 antibody, Keratin-18 antibody, Cytokeratin 18 Rabbit Monoclonal antibody


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