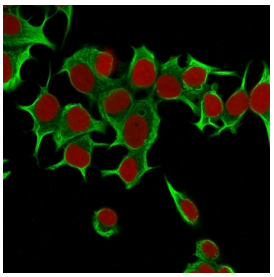
KRT19 Antibody Ks19.1 / Cytokeratin 19 Monoclonal Antibody [clone Ks19.1] (V2680)

Catalog No.	Formulation	Size
V2680-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2680-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2680SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2680IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

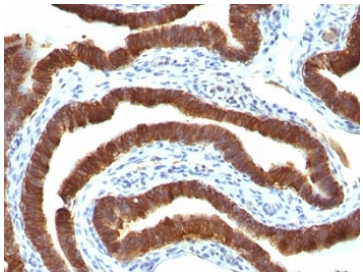
Citations (10)

Bulk quote request

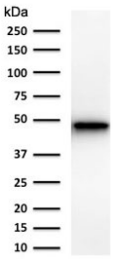
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, lambda
Clone Name	Ks19.1
Purity	Protein G affinity chromatography
UniProt	P08727
Localization	Cytoplasmic
Applications	Western blot: 1-2ug/10^6 cells Immunofluorescence: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This KRT19 Antibody Ks19.1 / Cytokeratin 19 Monoclonal Antibody is available for research use only.



KRT19 Antibody Ks19.1 by IF in human MCF7 cells. Immunofluorescence staining of methanol-fixed human MCF7 breast carcinoma cells using KRT19 Antibody clone Ks19.1. Green cytoplasmic fluorescence highlights an extensive intermediate filament network surrounding the nuclei and extending toward the cellular periphery. RedDot nuclear counterstaining identifies nuclei in red, providing contrast with the surrounding green signal. The Cytokeratin 19 Monoclonal Antibody demonstrates the characteristic cytoplasmic distribution of KRT19 in epithelial carcinoma cells.



KRT19 Antibody Ks19.1 by IHC in human ovarian carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded human ovarian carcinoma tissue using KRT19 Antibody clone Ks19.1. Strong brown cytoplasmic immunoreactivity highlights irregular, branching glandular epithelial structures surrounding distinct luminal spaces. The staining is concentrated within the carcinoma cells, while the intervening stromal tissue exhibits comparatively limited immunoreactivity. Hematoxylin counterstaining reveals nuclei in blue. Heat-induced epitope retrieval was performed using 10 mM citrate buffer, pH 6, for 10-20 minutes.



KRT19 Antibody Ks19.1 by WB in human PC3 cells. Western blot analysis of human PC3 prostate carcinoma cell lysate using KRT19 Antibody clone Ks19.1. A prominent immunoreactive band is detected at approximately 45 kDa, migrating between the 37 and 50 kDa molecular weight markers and closer to the latter. This position is consistent with the predicted molecular weight of human cytokeratin 19, approximately 43 kDa. The band is sharply defined, with no prominent additional immunoreactive bands visible within the displayed molecular weight range. Background staining is relatively low, providing clear separation between the detected band and surrounding membrane. The Cytokeratin 19 Monoclonal Antibody demonstrates recognition of a protein migrating near the expected size of KRT19 in PC3 cells.

Description

KRT19 Antibody Ks19.1 / Cytokeratin 19 Monoclonal Antibody recognizes keratin 19, a type I intermediate filament protein encoded by the KRT19 gene. Clone Ks19.1 recognizes an epitope within amino acids 312-335 of human cytokeratin 19, located in its alpha-helical rod domain. This mapped epitope provides a molecular reference for antibody selection and comparison with previously published studies. Unlike most type I keratins, KRT19 lacks the extended C-terminal tail domain, making it structurally distinctive within the keratin family.

KRT19 contributes to epithelial cytoskeletal organization by associating with compatible type II keratins, particularly keratin 8, to form intermediate filament networks. These structures help maintain cellular architecture and mechanical stability in epithelial tissues. KRT19 is expressed in numerous simple, glandular, and ductal epithelia, including mammary ducts, pancreatic ducts, biliary epithelial cells, and gastrointestinal tissues. The Cytokeratin 19 Monoclonal Antibody is therefore relevant to investigations of epithelial differentiation, tissue organization, and cellular lineage identity.

In cancer research, KRT19 is widely investigated as a marker of epithelial differentiation. Its expression is frequently retained in adenocarcinomas of the breast, colon, stomach, pancreas, and hepatobiliary system. KRT19 Antibody Ks19.1 is particularly relevant to studies examining the distribution of keratin-positive tumor cells within complex tissue architecture. In thyroid pathology, CK19 expression is commonly associated with papillary thyroid carcinoma, although positivity also occurs in other thyroid lesions and must be interpreted alongside morphology and complementary markers.

Clone Ks19.1 has an extensive history in cytokeratin research, making its identity valuable when comparing experimental findings across published studies. Its recognition of a defined region within the KRT19 rod domain provides an additional consideration for experimental reproducibility and clone selection. However, recognition of a mapped epitope does not independently establish the absence of cross-reactivity with related keratins. Appropriate experimental controls remain

important when interpreting immunoreactivity.

NSJ Bioreagents provides this mouse monoclonal antibody for investigating human epithelial tissues and carcinoma models. The Cytokeratin 19 Monoclonal Antibody supports research into epithelial differentiation, intermediate filament organization, and carcinoma-associated keratin expression.

For additional KRT19 detection options, see our anchor Cytokeratin 19 Antibody KRT19/799 | CK19 | V2678.

Application Notes

Optimal dilution of the KRT19 Antibody Ks19.1 / Cytokeratin 19 Monoclonal 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

Human breast cancer MCF-7 cells were used as the immunogen for the KRT19 antibody.

Storage

Store the KRT19 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Cytokeratin 19 antibody, CK19 antibody, Keratin 19 antibody, K19 antibody, Type I Cytoskeletal Keratin 19 antibody, Cytokeratin-19 antibody

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