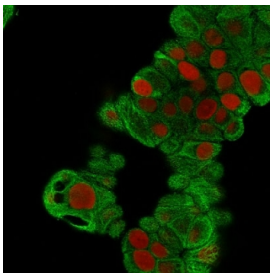
Keratin 19 Antibody BA17 / Cytokeratin 19 Monoclonal Antibody [clone BA17] (V3137)

Catalog No.	Formulation	Size
V3137-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3137-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3137SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3137IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

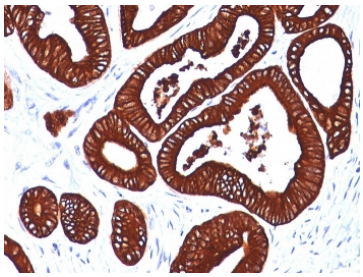
Citations (20)

Bulk quote request

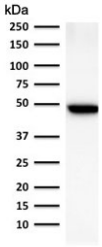
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	BA17
Purity	Protein G affinity chromatography
UniProt	P08727
Localization	Cytoplasmic
Applications	Western blot: 1-2ug/ml Immunofluorescence: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Keratin 19 Antibody BA17 / Cytokeratin 19 Monoclonal Antibody is available for research use only.



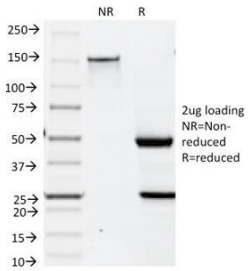
Keratin 19 Antibody BA17 by IF in human MCF7 cells. Immunofluorescence staining of methanol-fixed human MCF7 breast carcinoma cells using Keratin 19 Antibody clone BA17. Strong green cytoplasmic fluorescence highlights an extensive intermediate filament network surrounding the nuclei and extending throughout the cell bodies. The staining exhibits a predominantly filamentous distribution, with particularly prominent fluorescence in the perinuclear cytoplasm and along the cellular periphery. RedDot nuclear counterstaining identifies nuclei in red, providing clear contrast with the surrounding green fluorescence. The Cytokeratin 19 Monoclonal Antibody demonstrates the characteristic cytoplasmic organization of KRT19 intermediate filaments in human epithelial carcinoma cells.



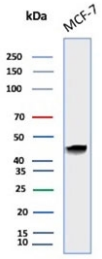
Keratin 19 Antibody BA17 by IHC in human colon carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded human colon carcinoma tissue using Keratin 19 Antibody clone BA17. Strong brown cytoplasmic immunoreactivity highlights numerous irregular glandular epithelial structures surrounding distinct luminal spaces. The staining is widespread throughout the carcinoma cells, with prominent labeling along the epithelial contours and within the cytoplasm. Several glandular structures contain detached cellular material within their lumens, while the surrounding stromal tissue exhibits comparatively limited immunoreactivity. Hematoxylin counterstaining reveals nuclei in blue. The Cytokeratin 19 Monoclonal Antibody demonstrates KRT19 expression within the gland-forming epithelial components of human colon carcinoma. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM Tris containing 1 mM EDTA, pH 9, for 10-20 minutes, followed by cooling at room temperature for 20 minutes.



Keratin 19 Antibody BA17 by WB in human lung lysate. Western blot analysis of human lung tissue lysate using Keratin 19 Antibody clone BA17. A single 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 expected molecular weight of human cytokeratin 19, approximately 43 kDa. The band is sharply defined and relatively intense, with no prominent additional immunoreactive bands visible within the displayed molecular weight range. The blot exhibits low background staining, 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 human lung tissue lysate.



SDS-PAGE analysis of purified, BSA-free Keratin 19 antibody (clone BA17) as confirmation of integrity and purity.



Keratin 19 Antibody BA17 by WB in human MCF7 cells. Western blot analysis of human MCF7 breast carcinoma cell lysate using Keratin 19 Antibody clone BA17. A single prominent immunoreactive band is detected at approximately 45 kDa, migrating between the 40 and 50 kDa molecular weight markers. The observed position is consistent with the expected molecular weight of human cytokeratin 19, approximately 43 kDa. The band is sharply defined and relatively intense, with no prominent additional immunoreactive bands visible within the displayed molecular weight range. Background staining is minimal, allowing clear visualization of the principal signal. The Cytokeratin 19 Monoclonal Antibody demonstrates recognition of a protein migrating near the expected molecular weight of KRT19 in MCF7 cells.

Description

Keratin 19 Antibody BA17 / Cytokeratin 19 Monoclonal Antibody recognizes the rod domain of human keratin 19, a type I intermediate filament protein encoded by the KRT19 gene. Clone BA17 is an established monoclonal antibody with an extensive history in epithelial and carcinoma research. Its recognition of the KRT19 rod domain provides a molecular distinction from antibodies directed against other regions of the protein. Keratin 19 is structurally unusual among type I keratins because it lacks the extended C-terminal tail domain found in many other family members.

KRT19 contributes to epithelial cytoskeletal organization by forming intermediate filament networks with compatible type II keratins, particularly keratin 8. These networks help maintain cellular architecture and mechanical stability in tissues exposed to physical stress. KRT19 is expressed in numerous simple, glandular, and ductal epithelia, including mammary ducts, biliary epithelial cells, pancreatic ducts, 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. Keratin 19 Antibody BA17 has particular relevance 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 BA17 has a substantial publication history, making its specific identity valuable when comparing antibody-based findings across established research methods. Its recognition of the KRT19 rod domain provides an additional consideration for experimental reproducibility and clone selection. However, recognition of a defined protein region does not independently establish the absence of cross-reactivity with related keratins. Researchers should consider tissue context and appropriate controls when interpreting immunoreactivity.

NSJ Bioreagents provides this mouse monoclonal antibody for investigating KRT19 expression in human epithelial tissues and carcinoma models. The Cytokeratin 19 Monoclonal Antibody supports research into epithelial differentiation, intermediate filament organization, and carcinoma-associated cytoskeletal expression.

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

Application Notes

The optimal dilution of the Keratin 19 Antibody BA17 / Cytokeratin 19 Monoclonal Antibody for each application should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.
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 mammary epithelial organoids were used as the immunogen for this Keratin 19 antibody.

Storage

Store the Keratin 19 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Cytokeratin 19 antibody, CK19 antibody, KRT19 antibody, K19 antibody, Cytokeratin-19 antibody, Type I Cytoskeletal Keratin 19 antibody

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