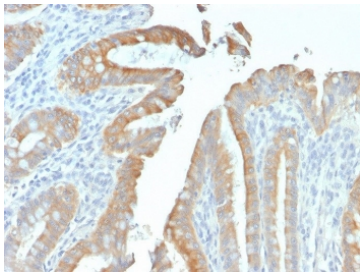
Recombinant Cytokeratin 19 Antibody / KRT19 [clone rKRT19/799] (V3614)

Catalog No.	Formulation	Size
V3614-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3614-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3614SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3614IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

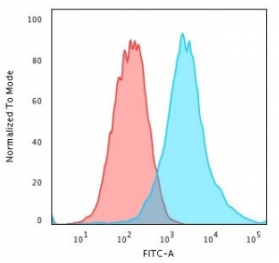
Recombinant MOUSE MONOCLONAL

Bulk quote request

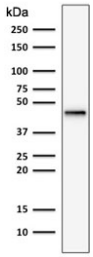
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rKRT19/799
Purity	Protein G affinity chromatography
UniProt	P08727
Localization	Cytoplasmic, cell membrane, secreted
Applications	Flow Cytometry : 1-2ug/10^6 cells Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant Cytokeratin 19 antibody is available for research use only.



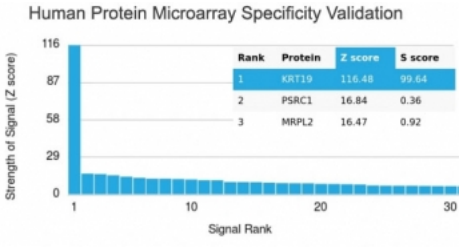
IHC testing of FFPE human colon tissue with recombinant Cytokeratin 19 antibody (clone rKRT19/799). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



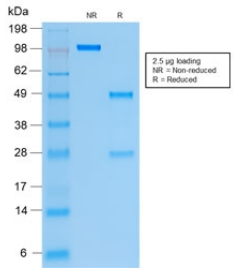
Flow cytometry testing of PFA-fixed human MCF7 cells with recombinant Cytokeratin 19 antibody (clone rKRT19/799); Red=isotype control, Blue= recombinant Cytokeratin 19 antibody.



Western blot testing of human HepG2 cell lysate with recombinant Cytokeratin 19 (clone rKRT19/799). Predicted molecular weight ~43 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant Cytokeratin 19 antibody (clone rKRT19/799). These results demonstrate the foremost specificity of the rKRT19/799 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free recombinant Cytokeratin 19 antibody (clone rKRT19/799) as confirmation of integrity and purity.

Description

Recombinant Cytokeratin 19 antibody is a reagent for detecting cytokeratin 19, a type I intermediate filament protein encoded by the KRT19 gene. Cytokeratin 19 is widely expressed in epithelial tissues and is distinguished as the smallest keratin without a partner type II keratin. Its expression marks epithelial cells and certain progenitor populations, making it an important tool in cell biology and cancer research.

Cytokeratin 19 contributes to the cytoskeletal network that provides mechanical stability and resilience to epithelial cells. It also participates in signaling pathways that regulate proliferation, differentiation, and tissue organization. Because of its widespread expression in simple epithelia, cytokeratin 19 is a commonly used marker in pathology to define epithelial origin of tumors.

The Recombinant Cytokeratin 19 antibody clone rKRT19/799 provides accurate and consistent detection. Recombinant production guarantees lot to lot uniformity, reducing variability in experimental results. Clone rKRT19/799 has been widely applied in oncology to evaluate carcinoma origin, in stem cell biology to track progenitor cells, and in regenerative medicine to study epithelial differentiation. Its versatility makes it valuable across research fields.

Research using clone rKRT19/799 has revealed how cytokeratin 19 expression informs cancer classification and prognosis. Elevated levels of cytokeratin 19 fragments in serum serve as biomarkers in lung and gastrointestinal cancers. Beyond oncology, cytokeratin 19 detection aids in mapping epithelial lineages during development and tissue repair. The antibody supports both basic and translational research applications.

NSJ Bioreagents offers this Recombinant Cytokeratin 19 antibody to support studies of epithelial biology and cancer. The protein is also known as KRT19 antibody, CK19 antibody, keratin 19 antibody, and cytoskeletal intermediate filament protein antibody, reflecting the varied terminology found in the literature.

Application Notes

Optimal dilution of the recombinant Cytokeratin 19 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 KRT19 protein was used as the immunogen for the recombinant Cytokeratin 19 antibody.

Storage

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