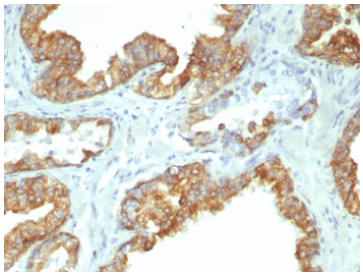
CK19 Antibody / Cytokeratin 19 [clone KRT19/8091R] (V4485)

Catalog No.	Formulation	Size
V4485-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4485-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4485SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

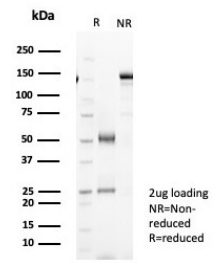
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse and Rat
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	KRT19/8091R
Purity	Protein A/G affinity
UniProt	P08727
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This recombinant CK19/Cytokeratin 19 antibody is available for research use only.



Immunohistochemistry analysis of CK19 / Cytokeratin 19 antibody (clone KRT19/8091R) in human prostate cancer tissue. Formalin-fixed, paraffin-embedded human prostate cancer tissue was stained using recombinant CK19 / Cytokeratin 19 antibody (clone KRT19/8091R). Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, followed by cooling prior to antibody incubation. Brown chromogenic signal is observed in tumor epithelial cells forming glandular structures, with cytoplasmic staining outlining malignant epithelial cells, while surrounding stromal tissue shows little to no staining. This staining pattern reflects epithelial-associated expression of Cytokeratin 19 in prostate carcinoma.



SDS-PAGE analysis of purified, BSA-free recombinant CK19/Cytokeratin 19 antibody (clone KRT19/8091R) as confirmation of integrity and purity.

Description

CK19 Antibody recognizes Cytokeratin 19, also known as Keratin 19 (KRT19), a type I intermediate filament protein that is widely expressed in simple epithelial cells and in specific epithelial compartments of stratified tissues. Cytokeratin 19 is the smallest member of the type I keratin family and lacks the typical tail domain found in other keratins, a structural feature that contributes to its distinctive filament organization within epithelial cells. CK19 Antibody is commonly used in research and pathology contexts and is frequently referred to in the literature as Cytokeratin 19 antibody or Keratin 19 antibody.

Cytokeratin 19 expression is characteristic of simple epithelia lining glandular and ductal structures, including bile ducts, pancreatic ducts, renal tubules, bronchial epithelium, gastrointestinal mucosa, and mammary epithelium. In stratified epithelia, CK19 expression is often observed in basal or progenitor-associated epithelial cells rather than terminally differentiated layers. This expression pattern distinguishes Cytokeratin 19 from differentiation-associated keratins such as Cytokeratin 10 or Cytokeratin 13 and makes CK19 Antibody useful for identifying epithelial cells with progenitor-like or ductal phenotypes.

Alterations in Cytokeratin 19 expression have been documented in a variety of pathological contexts. Changes in CK19 expression patterns are frequently observed in epithelial-derived malignancies, including carcinomas of the breast, lung, pancreas, thyroid, and gastrointestinal tract. As a result, Cytokeratin 19 antibody staining patterns are commonly evaluated in research studies focused on epithelial differentiation, ductal lineage identification, and carcinoma biology, particularly in tumors with glandular or ductal differentiation.

At the cellular level, Cytokeratin 19 contributes to the organization of the intermediate filament cytoskeleton and supports epithelial cell integrity and structural adaptability. Its broad expression in simple and ductal epithelia makes CK19 Antibody a valuable tool for studies of epithelial lineage tracing, tissue architecture, and epithelial biology. The CK19 Antibody (clone KRT19/8091R) is designed to detect Cytokeratin 19 expression in research applications where assessment of epithelial and ductal cell populations is required.

Application Notes

Optimal dilution of the recombinant CK19/Cytokeratin 19 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human protein was used as the immunogen for the recombinant CK19/Cytokeratin 19 antibody.

Storage

Aliquot the recombinant CK19/Cytokeratin 19 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.