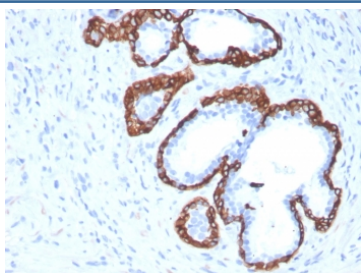


Cytokeratin 5 Antibody / KRT5 / CK5 [clone KRT5/3594] (V7568)

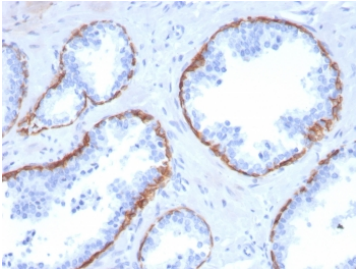
Catalog No.	Formulation	Size
V7568-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7568-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7568SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7568IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

[Bulk quote request](#)

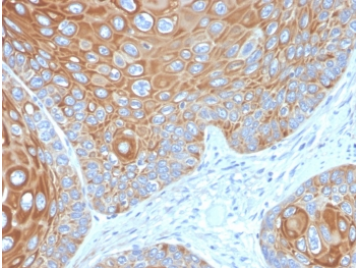
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KRT5/3594
Purity	Protein G affinity chromatography
UniProt	P13647
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Cytokeratin 5 antibody is available for research use only.



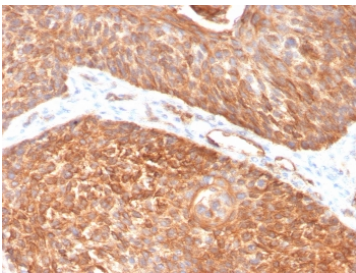
IHC staining of FFPE human prostate carcinoma with Cytokeratin 5 antibody (clone KRT5/3594). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



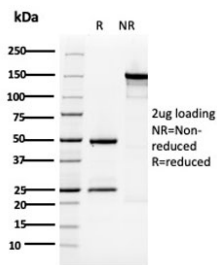
IHC staining of FFPE human prostate carcinoma with Cytokeratin 5 antibody (clone KRT5/3594). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE human cervical carcinoma with Cytokeratin 5 antibody (clone KRT5/3594). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE human pancreas with Cytokeratin 5 antibody (clone KRT5/3594). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Cytokeratin 5 antibody (clone KRT5/3594) as confirmation of integrity and purity.

Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Cytokeratin 5 antibody (clone KRT5/3594). These results demonstrate the foremost specificity of the KRT5/3594 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.

Description

Cytokeratin 5 antibody detects keratin 5, an intermediate filament protein encoded by the KRT5 gene. Keratin 5 is expressed in basal epithelial cells of stratified squamous epithelia, where it pairs with keratin 14 to form the cytoskeletal network. Because keratin 5 is a marker of basal cells and certain epithelial tumors, Cytokeratin 5 antibody is widely used in pathology, dermatology, and cancer biology.

Keratin 5 belongs to the type II cytokeratin family, characterized by coiled-coil domains that assemble into intermediate

filaments. These structures provide mechanical stability, protect cells from stress, and support tissue integrity. Mutations in KRT5 are associated with epidermolysis bullosa simplex, a blistering disorder that illustrates the importance of keratin 5 in skin resilience. In pathology, cytokeratin 5 expression helps distinguish between tumor subtypes, particularly in lung and breast cancers.

The Cytokeratin 5 antibody clone KRT5/3594 delivers reliable detection of this structural protein. Clone KRT5/3594 has been employed in peer-reviewed studies that classify carcinomas, analyze skin biology, and map basal epithelial populations. Its specificity makes it suitable for immunohistochemistry and Western blotting in both basic research and diagnostic contexts.

Research using clone KRT5/3594 has clarified how cytokeratin 5 serves as a basal cell marker in squamous cell carcinomas and in basal-like breast cancer. In dermatology, this antibody supports investigation of epidermal differentiation and disease mechanisms such as blistering disorders. Beyond oncology and dermatology, cytokeratin 5 detection informs studies of epithelial biology, stem cell niches, and tissue regeneration.

NSJ Bioreagents provides this Cytokeratin 5 antibody to support oncology, dermatology, and epithelial biology. Alternate names include KRT5 antibody, keratin type II cytoskeletal 5 antibody, basal cell keratin antibody, epidermal structural protein antibody, and epithelial intermediate filament antibody.

Application Notes

Optimal dilution of the Cytokeratin 5 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

A recombinant human Cytokeratin 5 protein fragment within amino acids 316-590 was used as the immunogen for the Cytokeratin 5 antibody.

Storage

Store the Cytokeratin 5 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).