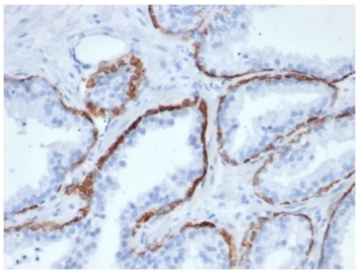
CK5 Antibody / Cytokeratin 5 / KRT5 [clone KRT5/6466] (V8794)

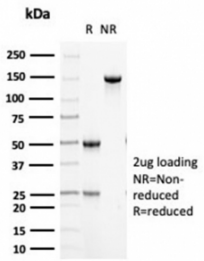
Catalog No.	Formulation	Size
V8794-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8794-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8794SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

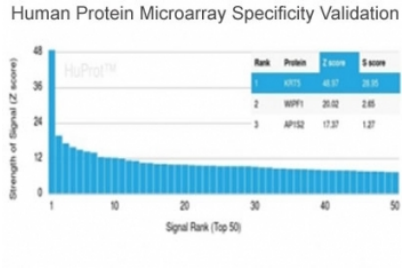
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KRT5/6466
Purity	Protein A/G affinity
UniProt	P13647
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This CK5 antibody is available for research use only.



IHC staining of FFPE human prostate tissue with CK5 antibody (clone KRT5/6466). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free CK5 antibody (KRT5/6466) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CK5 antibody (clone KRT5/6466). These results demonstrate the foremost specificity of the KRT5/6466 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

CK5 antibody detects cytokeratin 5, a type II intermediate filament protein encoded by the KRT5 gene. Cytokeratin 5 is expressed in basal epithelial cells, where it pairs with keratin 14 to maintain cytoskeletal integrity and resist mechanical stress. Because of its role as a basal cell marker and frequent use in pathology, CK5 antibody is essential in oncology, dermatology, and epithelial biology.

Cytokeratin 5 contributes to the structural framework of stratified epithelia, including skin, lung, and the cervix. Its expression defines basal epithelial layers and supports cellular resilience against environmental insults. Dysregulation of CK5 expression has been implicated in squamous cell carcinoma, basal-like breast cancer, and chronic inflammatory skin diseases. Detection of CK5 provides a reliable means of characterizing epithelial differentiation and tumor subtype.

The CK5 antibody clone KRT5/6466 provides specific and reproducible recognition. Clone KRT5/6466 has been cited in peer-reviewed studies of carcinoma classification, skin pathology, and epithelial differentiation. It is suitable for immunohistochemistry, Western blotting, and immunofluorescence, where accurate detection of CK5 is critical.

Research using clone KRT5/6466 has demonstrated how CK5 expression distinguishes squamous cell carcinoma from adenocarcinoma, particularly in lung and breast cancers. In dermatology, CK5 detection highlights basal keratinocytes in normal skin and in hyperproliferative conditions such as psoriasis. Beyond oncology and dermatology, this antibody has supported developmental studies examining how basal keratins regulate epithelial regeneration and stratification.

NSJ Bioreagents provides this CK5 antibody to support oncology, dermatology, and epithelial research. Alternate designations include KRT5 antibody, cytokeratin type II cytoskeletal 5 antibody, basal keratinocyte marker antibody, stratified epithelium intermediate filament antibody, and squamous carcinoma marker antibody.

Application Notes

Optimal dilution of the CK5 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 316-590 was used as the immunogen for the CK5 antibody.

Storage

Aliquot the CK5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.