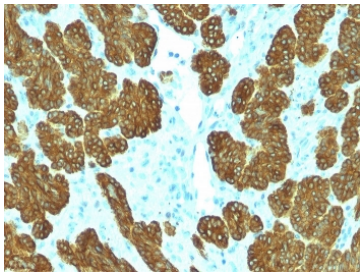
Cytokeratin 5/6 Antibody [clone KRT5.6/2090] (V8493)

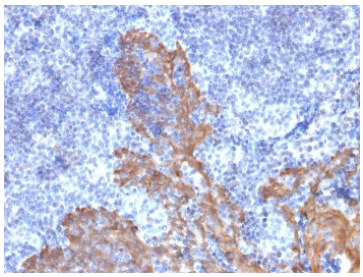
Catalog No.	Formulation	Size
V8493-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8493-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8493SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

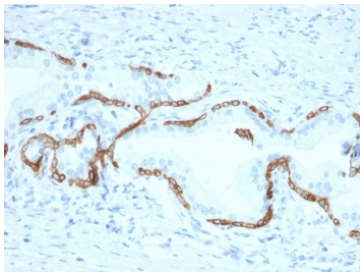
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KRT5.6/2090
Purity	Protein G affinity chromatography
UniProt	P13647; P02538
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Cytokeratin 5/6 antibody is available for research use only.



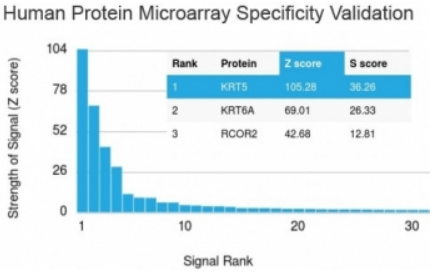
IHC staining of FFPE human basal cell carcinoma with Cytokeratin 5/6 antibody (clone KRT5.6/2090). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



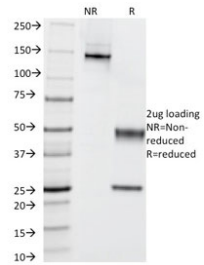
IHC staining of FFPE human tonsil with Cytokeratin 5/6 antibody (clone KRT5.6/2090). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human prostate carcinoma with Cytokeratin 5/6 antibody (clone KRT5.6/2090). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Cytokeratin 5/6 antibody (clone KRT5.6/2090). These results demonstrate the foremost specificity of the KRT5.6/2090 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 Cytokeratin 5/6 antibody (clone KRT5.6/2090) as confirmation of integrity and purity.

Description

Cytokeratin 5/6 antibody detects keratins 5 and 6, intermediate filament proteins encoded by the KRT5 and KRT6 genes. These keratins are expressed in basal epithelial cells and stratified squamous epithelia, where they contribute to structural stability and resilience. Because keratins 5 and 6 are widely used as diagnostic markers in pathology, particularly for distinguishing squamous cell carcinomas from adenocarcinomas, Cytokeratin 5/6 antibody is a critical reagent in oncology and epithelial biology.

Keratin 5 is a type II keratin that pairs with keratin 14, while keratin 6 is a type II keratin upregulated in hyperproliferative states such as wound healing and psoriasis. Together, keratins 5 and 6 form filament networks that maintain cytoskeletal integrity and provide mechanical support against stress. Aberrant expression patterns of these keratins are associated with disease progression in cancer and dermatological conditions.

The Cytokeratin 5/6 antibody clone KRT5.6/2090 provides specific and reproducible detection of these basal keratins. Clone KRT5.6/2090 has been cited in peer-reviewed studies on carcinoma classification, tumor progression, and skin pathology. Its reproducibility supports applications in immunohistochemistry and diagnostic panels, where accurate

epithelial lineage identification is crucial.

Research using clone KRT5.6/2090 has shown how cytokeratin 5/6 expression helps define squamous differentiation in lung carcinomas and basal-like breast cancers. In dermatology, detection of keratin 6 highlights regenerative activity in skin injury and chronic inflammatory disease. This antibody provides a foundation for both diagnostic pathology and mechanistic studies of epithelial biology.

NSJ Bioreagents provides this Cytokeratin 5/6 antibody to support oncology, pathology, and epithelial research. Alternate names include KRT5 antibody, KRT6 antibody, keratin type II cytoskeletal 5 antibody, keratin type II cytoskeletal 6 antibody, basal cell keratin antibody, squamous differentiation marker antibody, and epithelial intermediate filament antibody.

Application Notes

Optimal dilution of the Cytokeratin 5/6 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human KRT5 protein was used as the immunogen for the Cytokeratin 5/6 antibody.

Storage

Store the Cytokeratin 5/6 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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