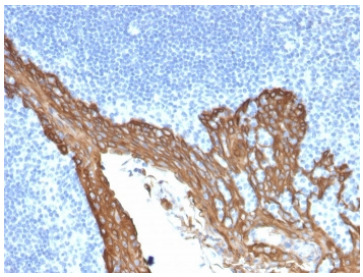
Cytokeratin 8 Antibody KRT8/2115 / Protein Microarray Validated Antibody [clone KRT8/2115] (V7914)

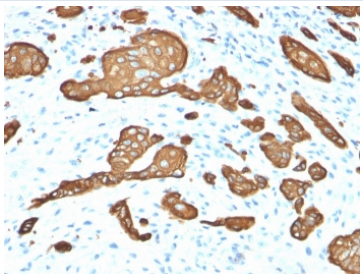
Catalog No.	Formulation	Size
V7914-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7914-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7914SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

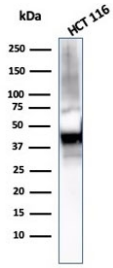
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KRT8/2115
Purity	Protein G affinity chromatography
UniProt	P05787
Localization	Cytoplasmic
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Cytokeratin 8 Antibody KRT8/2115 / Protein Microarray Validated Antibody is available for research use only.



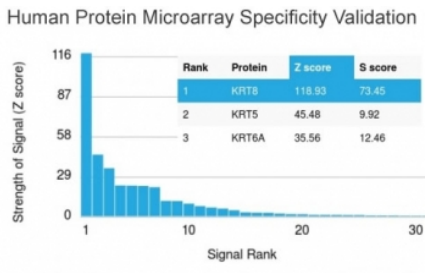
Cytokeratin 8 Antibody KRT8/2115 Prostate IHC. Immunohistochemistry staining of FFPE human prostate tissue using Cytokeratin 8 Antibody / Protein Microarray Validated Antibody (clone KRT8/2115) demonstrates strong membranous and cytoplasmic HRP-DAB brown staining within glandular epithelial cell populations. The staining pattern is consistent with expression of Keratin 8 (KRT8), a type II intermediate filament protein that serves as a major structural component of simple epithelial tissues. Robust immunoreactivity highlights the epithelial architecture of prostatic glandular structures and supports the established role of KRT8 in maintaining epithelial integrity, cytoskeletal organization, and tissue homeostasis. The observed staining demonstrates the utility of this antibody for studies of epithelial differentiation, intermediate filament biology, prostate tissue organization, and epithelial-derived neoplasia. HIER: boil tissue sections in pH 9, 10 mM Tris with 1 mM EDTA for 20 minutes and allow to cool before testing.



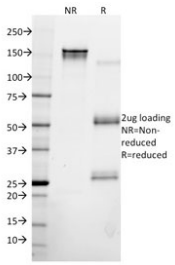
Cytokeratin 8 Antibody KRT8/2115 Basal Cell Carcinoma IHC. Immunohistochemistry staining of FFPE human basal cell carcinoma tissue using Cytokeratin 8 Antibody / Protein Microarray Validated Antibody (clone KRT8/2115) demonstrates strong membranous and cytoplasmic HRP-DAB brown staining within nests and cords of neoplastic epithelial cells. The staining pattern is consistent with expression of Keratin 8 (KRT8), a type II intermediate filament protein involved in epithelial cell structure, cytoskeletal organization, and tissue integrity. Prominent immunoreactivity sharply highlights tumor cell populations against the surrounding stromal background and supports the established role of KRT8 as a marker of epithelial differentiation. The observed staining demonstrates the utility of this antibody for studies of epithelial biology, skin cancer pathology, intermediate filament organization, and epithelial-derived neoplasms. HIER: boil tissue sections in pH 9, 10 mM Tris with 1 mM EDTA for 20 minutes and allow to cool before testing.



Cytokeratin 8 Antibody KRT8/2115 HCT116 WB. Western blot analysis of human HCT116 cell lysate using Cytokeratin 8 Antibody / Protein Microarray Validated Antibody (clone KRT8/2115) demonstrates a prominent immunoreactive band at approximately 56 kDa. The observed molecular weight is consistent with the predicted size of Keratin 8 (KRT8), a type II intermediate filament protein that serves as a major structural component of simple epithelial cells. Detection of the expected target in HCT116 colorectal carcinoma cells is consistent with the established expression of KRT8 in epithelial-derived tissues and malignancies. The observed immunoreactivity demonstrates the utility of this antibody for studies of epithelial differentiation, intermediate filament organization, cytoskeletal biology, tumor cell characterization, and epithelial-derived cancer research. Observed molecular weight: ~56 kDa. Expected molecular weight: ~56 kDa.



Cytokeratin 8 Antibody KRT8/2115 Protein Microarray Validation. Analysis of a HuProt(TM) protein microarray containing more than 19,000 full-length human proteins using Cytokeratin 8 Antibody / Protein Microarray Validated Antibody (clone KRT8/2115) demonstrates exceptional specificity for Keratin 8 (KRT8). KRT8 was identified as the highest-ranking target with a Z-score of 118.93 and an S-score of 73.45, substantially exceeding all other proteins present on the array. The second-ranked target, KRT5, exhibited a Z-score of 45.48 and an S-score of 9.92, while KRT6A displayed a Z-score of 35.56 and an S-score of 12.46. The Z-score represents the strength of antibody binding relative to the mean signal generated across the array, while the S-score reflects the specificity gap between a target and the next highest-ranking protein. Because antibodies with S-scores greater than 2.5 are generally considered highly specific, the exceptionally high S-score observed for KRT8 provides strong evidence of target selectivity. These results support the utility of clone KRT8/2115 for specific detection of Cytokeratin 8 in epithelial biology, cytoskeletal research, and cancer-related applications.fore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Cytokeratin 8 antibody (clone KRT8/2115) as confirmation of integrity and purity.

Description

Cytokeratin 8 Antibody KRT8/2115 / Protein Microarray Validated Antibody recognizes Keratin 8 (KRT8), a type II intermediate filament protein that serves as a major structural component of simple epithelial cells. KRT8 is widely expressed in epithelial tissues and functions together with type I keratins, particularly Keratin 18, to form intermediate filament networks that provide mechanical stability, maintain cellular architecture, and support tissue integrity. Because of its broad expression in epithelial-derived tissues and tumors, Cytokeratin 8 has become one of the most widely utilized markers for epithelial cell identification, differentiation studies, and cancer research applications.

Intermediate filaments formed by KRT8 contribute to much more than structural support alone. Cytokeratin 8 participates in regulation of cellular organization, intracellular trafficking, stress responses, apoptosis, and signaling pathways that influence epithelial cell survival and function. These filament networks help epithelial cells withstand mechanical stress while preserving tissue architecture and barrier integrity. As a result, KRT8 plays an important role in maintaining epithelial homeostasis during development, tissue remodeling, and disease progression.

KRT8 expression is commonly observed in glandular epithelia, ductal epithelia, hepatocytes, and numerous epithelial-derived tissues throughout the body. In diagnostic and research settings, Cytokeratin 8 is frequently used as a marker of epithelial differentiation and epithelial lineage. Altered KRT8 expression patterns have been reported in a variety of malignancies, making it a valuable target for investigations of tumor biology, cellular transformation, metastatic progression, and epithelial tissue organization. Cytokeratin 8 is also commonly utilized alongside other keratin markers to characterize epithelial cell populations and assess differentiation status.

A key differentiating feature of this Cytokeratin 8 antibody is its validation using a comprehensive Human Protein Microarray containing more than 19,000 full-length human proteins. Protein microarray analysis demonstrated exceptionally strong and selective recognition of KRT8, which ranked as the top target with a Z-score of 118.93 and an S-score of 73.45. The S-score represents the specificity gap between the intended target and the next highest-reactive protein, with scores above 2.5 generally considered highly specific. These results provide strong evidence supporting target specificity and reliable recognition of Cytokeratin 8 in research applications.

At NSJ Bioreagents, we provide highly validated antibodies for epithelial biology, cancer research, cytoskeletal studies, and cell biology applications. Cytokeratin 8 Antibody / Protein Microarray Validated Antibody is useful for investigations of epithelial differentiation, intermediate filament organization, tumor biology, tissue architecture, cellular stress responses, and epithelial-derived malignancies. Continued study of KRT8 is expanding our understanding of epithelial structure, cellular resilience, and the molecular mechanisms that govern tissue homeostasis and disease progression.

For protein microarray validated detection of Keratin 8 in epithelial and cancer research applications, researchers may also be interested in our Cytokeratin 8 Antibody page.

Application Notes

Optimal dilution of the Cytokeratin 8 Antibody KRT8/2115 / Protein Microarray Validated Antibody should be determined by the researcher.

Immunogen

A recombinant full-length human KRT8 protein was used as the immunogen for this Cytokeratin 8 antibody.

Storage

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

Alternate Names

Cytokeratin 8 Antibody, KRT8 Antibody, Keratin 8 Antibody, CK8 Antibody, Cytokeratin-8 Antibody, Intermediate Filament Protein Antibody

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