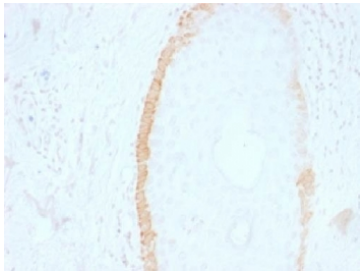
Cytokeratin 15 Antibody SPM190 / KRT15 Monoclonal Antibody [clone SPM190] (V3455)

Catalog No.	Formulation	Size
V3455-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3455-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3455SAF-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 IgG2a, kappa
Clone Name	SPM190
Purity	Protein G affinity chromatography
UniProt	P19012
Localization	Cytoplasmic
Applications	Immunohistochemistry (Frozen & FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Cytokeratin 15 Antibody SPM190 / KRT15 Monoclonal Antibody is available for research use only.



Cytokeratin 15 Antibody SPM190 by IHC in human skin. Immunohistochemistry of formalin-fixed, paraffin-embedded human skin tissue using the KRT15 Monoclonal Antibody. Brown cytoplasmic immunoreactivity is concentrated within a narrow epithelial layer surrounding a follicular structure, while adjacent connective tissue exhibits comparatively little staining. The distribution highlights KRT15 expression within a specialized epithelial compartment associated with hair follicle organization. Hematoxylin counterstaining reveals nuclei in blue, providing contrast with the positively stained epithelial cells. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 10-20 minutes.

Description

Cytokeratin 15 Antibody SPM190 / KRT15 Monoclonal Antibody recognizes keratin 15, a type I intermediate filament protein encoded by the human KRT15 gene. Cytokeratin 15 is expressed in selected basal epithelial populations and is particularly associated with the hair follicle bulge, an anatomical compartment containing epithelial stem and progenitor cells. Its restricted expression pattern makes KRT15 an informative marker for investigating epithelial differentiation and the cellular organization of skin and hair follicles.

In dermatopathology, Cytokeratin 15 expression has been investigated in cutaneous neoplasms exhibiting basal or follicular differentiation. Basal cell carcinoma, trichoepithelioma, and trichoblastoma can share overlapping histological characteristics, making their distinction challenging in certain specimens. Immunohistochemical analysis of keratin expression provides supplementary information about epithelial lineage and differentiation. Although KRT15 immunoreactivity has been documented in these tumors, its distribution varies among lesions, and staining alone cannot reliably distinguish benign follicular neoplasms from basal cell carcinoma.

Trichoblastoma is a benign follicular neoplasm that may resemble nodular basal cell carcinoma. Studies comparing keratin expression in these tumors have examined KRT15 alongside KRT19 and other markers of follicular differentiation. Such investigations illustrate the importance of evaluating multiple epithelial proteins rather than relying on a single immunohistochemical marker. Cytokeratin 15 Antibody SPM190 is relevant to research examining these expression patterns and their relationship to tumor morphology.

Beyond neoplastic tissues, KRT15 expression is associated with relatively undifferentiated basal keratinocytes and specialized follicular compartments. Its expression can decline during keratinocyte activation, reflecting changes in epithelial differentiation and tissue remodeling. The distribution of KRT15-positive cells has therefore been investigated in studies of epidermal maintenance, hair follicle regeneration, and epithelial responses to injury. However, KRT15 expression is not exclusive to stem cells, and its interpretation requires anatomical context and complementary markers.

NSJ Bioreagents provides Cytokeratin 15 Antibody SPM190 for immunohistochemical investigation of human tissues, including frozen and formalin-fixed, paraffin-embedded specimens. This mouse monoclonal antibody was generated using a C-terminal sequence from human KRT15. The KRT15 Monoclonal Antibody supports research into epithelial differentiation, follicular tumor characteristics, and the distribution of basal-associated keratins in normal and neoplastic tissues.

Explore our Cytokeratin 15 Antibody KRT15/2957 for additional research into KRT15 expression, epithelial differentiation, and hair follicle biology.

Application Notes

Optimal dilution of the Cytokeratin 15 Antibody SPM190 / KRT15 Monoclonal Antibody should be determined by the researcher.

Immunogen

An amino acid sequence from the C-terminal portion of the human protein was used as the immunogen for the Cytokeratin 15 antibody.

Storage

Store the Cytokeratin 15 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CK15 antibody, Keratin 15 antibody, KRT15 antibody, Cytokeratin-15 antibody, K15 antibody, Keratin-15 monoclonal antibody

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