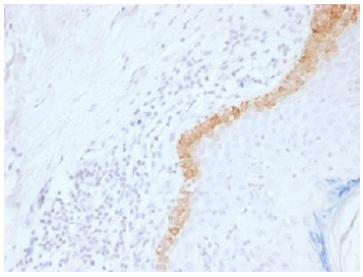
Keratin 15 Antibody LHK15 / Cytokeratin 15 Monoclonal Antibody [clone LHK15] (V3286)

Catalog No.	Formulation	Size
V3286-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3286-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3286SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

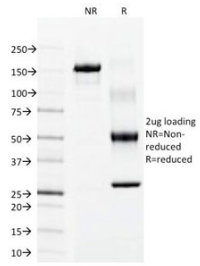
Citations (21)

Bulk quote request

Species Reactivity	Human, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	LHK15
Purity	Protein G affinity chromatography
UniProt	P19012
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 0.1-0.2ug/ml for 30 min at RT
Limitations	This Keratin 15 Antibody LHK15 / Cytokeratin 15 Monoclonal Antibody is available for research use only.



Keratin 15 Antibody LHK15 by IHC in human skin. Immunohistochemistry of formalin-fixed, paraffin-embedded human skin tissue using the Cytokeratin 15 Monoclonal Antibody. Brown immunoreactivity is concentrated within a narrow epithelial region bordering the underlying connective tissue, with staining predominantly associated with the cytoplasm of basal epithelial cells. The adjacent tissue exhibits comparatively limited labeling, while hematoxylin counterstaining highlights nuclei in blue. The distribution is consistent with the basal epithelial localization associated with keratin 15 expression. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM citrate buffer, pH 6, for 10-20 minutes.



SDS-PAGE analysis of purified Keratin 15 Antibody LHK15. Electrophoretic analysis of the purified, BSA-free Cytokeratin 15 Monoclonal Antibody under nonreducing (NR) and reducing (R) conditions, with approximately 2 ug of antibody loaded per lane. The nonreducing lane contains a prominent band migrating near 150 kDa, consistent with intact immunoglobulin. Under reducing conditions, distinct bands are observed near 50 kDa and 25 kDa, corresponding to immunoglobulin heavy and light chains, respectively. The observed migration patterns are consistent with the expected molecular composition of a purified mouse monoclonal antibody and support the integrity of the antibody preparation.

Description

Keratin 15 Antibody LHK15 / Cytokeratin 15 Monoclonal Antibody recognizes keratin 15, a type I intermediate filament protein encoded by the KRT15 gene. Keratin 15 is expressed in selected basal epithelial populations, particularly within the hair follicle bulge, where it has become an established marker for investigating epithelial stem cell compartments. Its distribution reflects specialized differentiation programs involved in maintaining the epidermis and supporting cyclical hair follicle regeneration.

The hair follicle bulge contains relatively quiescent epithelial stem cells capable of generating progenitor populations during successive hair growth cycles. Keratin 15 expression has been used extensively to characterize this anatomical compartment and distinguish it from more actively differentiating follicular regions. Studies examining KRT15-positive populations have contributed to understanding epithelial lineage relationships, stem cell activation, and the mechanisms coordinating follicular regeneration. However, keratin 15 expression is not exclusive to stem cells, and its interpretation requires consideration of anatomical localization and complementary markers.

Clone LHK15 has particular relevance to the immunohistochemical characterization of human hair follicle structures. Its recognition of a C-terminal region of keratin 15 provides a defined immunogen distinction from antibodies generated against recombinant full-length protein. Keratin 15 Antibody LHK15 is therefore useful for examining the distribution of KRT15 within epithelial compartments, including basal epidermal cells and follicular structures. Expression patterns can provide information about epithelial organization, although antibody staining alone does not establish cellular lineage or regenerative potential.

Keratin 15 expression also changes during epidermal injury and remodeling. Activation of keratinocytes can alter intermediate filament profiles as cells transition between relatively quiescent, proliferative, and differentiating states. Investigations of these changes have helped characterize epithelial responses to tissue damage and the contribution of follicular populations to epidermal repair. The Cytokeratin 15 Monoclonal Antibody is relevant to research examining these spatial and temporal changes in epithelial differentiation.

NSJ Bioreagents provides Keratin 15 Antibody LHK15 for immunohistochemical investigations of human and rat tissues. Its established clone identity and defined C-terminal immunogen make it a useful complementary reagent for examining KRT15 distribution in epithelial tissues, particularly in studies of follicular organization, stem cell niches, and epidermal regeneration.

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 Keratin 15 Antibody LHK15 / Cytokeratin 15 Monoclonal Antibody should be determined by the researcher.

Immunogen

A 17 amino acid sequence from the C- terminal of human CK15 was used as the immunogen for the Keratin 15 antibody.

Storage

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

Alternate Names

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

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