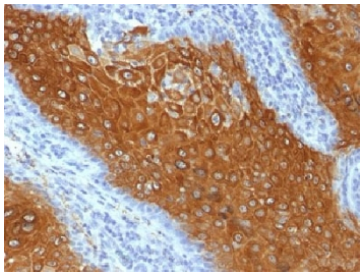
Keratin 10 Antibody / KRT10 [clone KRT10/844] (V2666)

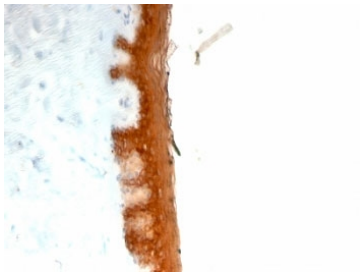
Catalog No.	Formulation	Size
V2666-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2666-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2666SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2666IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KRT10/844
Purity	Protein G affinity chromatography
UniProt	P13645
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Keratin 10 antibody is available for research use only.



IHC testing of FFPE human skin with Keratin 10 antibody (clone KRT10/844). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min.



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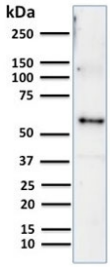
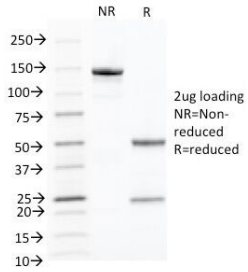


Western blot testing of human thymus lysate with Keratin 10 antibody (clone KRT10/844). Predicted molecular weight ~59 kDa.



SDS-PAGE analysis of purified, BSA-free Keratin 10 antibody (clone KRT10/844) as confirmation of integrity and purity.

Description

Keratin 10 antibody clone KRT10/844 is a monoclonal antibody specific for keratin 10, a type I intermediate filament protein expressed in suprabasal keratinocytes of stratified epithelia. Keratin 10 pairs with keratin 1 to form heterodimers that maintain the structural integrity of the epidermis. This protein is crucial for terminal differentiation of keratinocytes, making it a key marker of epithelial maturation. NSJ Bioreagents provides this antibody for dermatology, oncology, and cell biology research.

The antibody produces strong cytoplasmic staining in suprabasal layers of the epidermis, with absent or weak staining in basal keratinocytes. This distribution highlights keratin 10Ã¢Â€Â™s role in differentiation rather than proliferation. In dermatopathology, the antibody is widely used to evaluate skin disorders, including ichthyosis, psoriasis, and keratinization defects. Its reproducible detection of keratin 10 supports differentiation between normal, hyperproliferative, and dysplastic epithelium.

In oncology, keratin 10 serves as a diagnostic marker in squamous cell carcinomas and related epithelial tumors. Its expression pattern helps pathologists classify tumors by differentiation status and identify squamous lineage. Reduced or absent keratin 10 expression often correlates with poorly differentiated carcinomas, while strong expression indicates a more differentiated phenotype.

In developmental and cell biology, keratin 10 is used to study keratinocyte differentiation and stratification of epidermis. Detection with this antibody supports research into how epithelial cells exit the basal proliferative compartment and transition to a terminally differentiated state. This process is fundamental to skin barrier function and epithelial homeostasis.

The antibody has also been applied in toxicology and wound-healing studies. Altered keratin 10 expression reflects epithelial stress responses, making it a useful marker for assessing skin injury, regeneration, and the effects of

environmental or pharmacological agents.

Validated in tissue and cell-based systems, the antibody provides strong and specific cytoplasmic staining with minimal background. Alternate names include CK10 antibody, cytokeratin 10 antibody, and type I keratin 10 antibody.

Application Notes

Optimal dilution of the Keratin 10 antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human KRT10 protein was used as the immunogen for the Keratin 10 antibody.

Storage

Store the Keratin 10 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).