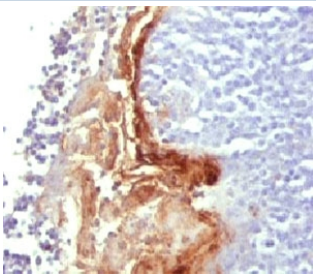
Involucrin Antibody [clone SY5] (V2164)

Catalog No.	Formulation	Size
V2164-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2164-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2164SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2164IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

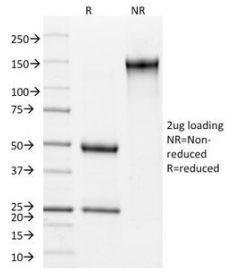
Citations (9)

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SY5
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	3713
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 0.1-0.2ug/ml for 30 min at RT
Limitations	This **Involucrin antibody** is available for research use only.



IHC analysis of FFPE human tonsil tissue and Involucrin antibody.



SDS-PAGE Analysis of Purified, BSA-Free Involucrin Antibody (clone SY5). Confirmation of Integrity and Purity of the Antibody.

Description

Involucrin antibody clone SY5 is a monoclonal antibody directed against involucrin, a structural protein expressed in keratinocytes of the stratified squamous epithelium. Involucrin is synthesized in the cytoplasm of differentiating keratinocytes and becomes cross linked by transglutaminases into the cornified cell envelope, contributing to the physical barrier of skin and mucosa. Because of its role in epidermal differentiation and barrier formation, involucrin is a widely used marker of keratinocyte maturation. NSJ Bioreagents provides Involucrin antibody clone SY5 for researchers investigating skin biology, epithelial disorders, and tumor pathology.

Involucrin antibody clone SY5 produces robust cytoplasmic staining of keratinocytes in the suprabasal layers of stratified epithelium. It is a valuable tool for mapping the stages of keratinocyte differentiation in both normal and diseased tissues. Pathologists frequently employ this antibody to characterize epithelial tumors, where involucrin expression can help determine the degree of squamous differentiation. Strong involucrin staining supports the diagnosis of squamous cell carcinomas, while its absence may indicate alternative tumor origins.

In dermatology research, involucrin antibody clone SY5 is used to study conditions that disrupt keratinocyte differentiation and skin barrier function. Diseases such as psoriasis, atopic dermatitis, and ichthyosis often show altered patterns of involucrin expression, reflecting disturbed epidermal maturation. This antibody enables researchers to analyze these changes and connect molecular alterations to clinical manifestations of skin disease.

Involucrin is also an important marker in wound healing research. Its expression is upregulated during reepithelialization as keratinocytes migrate and differentiate to restore barrier integrity. Involucrin antibody clone SY5 provides clear visualization of this process, allowing researchers to track keratinocyte behavior in experimental wound models.

Validated for immunohistochemistry, immunofluorescence, and western blotting, involucrin antibody clone SY5 delivers strong and consistent results across tissue preparations. Its reproducibility and extensive citation history make it a trusted reagent in both clinical and experimental settings. Alternate names include keratinocyte differentiation marker involucrin antibody and cornified envelope protein antibody.

For an alternative recombinant monoclonal targeting this protein, see our Involucrin Antibody IVRN/2113R / IVL Monoclonal Antibody page.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titered up or down for optimal performance.

1. Staining of formalin-fixed tissues is enhanced by digestion with trypsin Protease XXV (Sigma) at 1mg/ml PBS for 5 min at 37oC.
2. 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

Purified Involucrin from human keratinocytes was used as the immunogen for this antibody.

Storage

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

References (1)

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