Anti-Involucrin [SY5]

Catalogue number: 152587
Sub-type: Primary antibody
Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Involucrin [SY5]

Alternate name:

Class: Recombinant
Conjugate: Unconjugated
Description: Clone SY5 recognizes a protein of 66kDa-170kDa, identified as involucrin. In Western blotting of cultured human keratinocytes, this MAb reacts with a 120kDa protein. It stains the involucrin in a variety of sizes: 170kDa in MCF-7 cells, a doublet of ~115kDa and 150kDa in gorilla and owl monkey, 66kDa in dog, and a doublet of 105kDa in pig. Its epitope maps between codon 421-568 of human involucrin. Involucrin is expressed in a range of stratified squamous epithelia, including the cornea, which lacks a distinct cornified layer. In normal epidermis, it is first expressed in the upper spinous layers, and in keratinocyte cultures, all cells that have left the basal layer express it.Involucrin is a protein precursor of the epidermal cornified envelope and a differentiation marker of human keratinocytes. SY5 is useful for studies of changes in involucrin expression in pathological studies. Involucrin expression is altered in pathological conditions: in psoriasis and other benign epidermal hyperplasias, involucrin expression begins closer to the basal layer than normal; expression is abnormal in squamous cell carcinomas and premalignant lesions, and is reduced in severe dysplasias of the larynx and cervix.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype: IgG1
Reactivity: Dog ; Human ; Pig ; Primate
Selectivity:

Host: Mouse
Immunogen: Purified involucrin from human keratinocytes.
Immunogen UNIPROT ID:
Sequence:
Growth properties:
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Involucrin

Target alternate names:

Target background: Clone SY5 recognizes a protein of 66kDa-170kDa, identified as involucrin. In Western blotting of cultured human keratinocytes, this MAb reacts with a 120kDa protein. It stains the involucrin in a variety of sizes: 170kDa in MCF-7 cells, a doublet of ~115kDa and 150kDa in gorilla and owl monkey, 66kDa in dog, and a doublet of 105kDa in pig. Its epitope maps between codon 421-568 of human involucrin. Involucrin is expressed in a range of stratified squamous epithelia, including the cornea, which lacks a distinct cornified layer. In normal epidermis, it is first expressed in the upper spinous layers, and in keratinocyte cultures, all cells that have left the basal layer express it.Involucrin is a protein precursor of the epidermal cornified envelope and a differentiation marker of human keratinocytes. SY5 is useful for studies of changes in involucrin expression in pathological studies. Involucrin expression is altered in pathological conditions: in psoriasis and other benign epidermal hyperplasias, involucrin expression begins closer to the basal layer than normal; expression is abnormal in squamous cell carcinomas and premalignant lesions, and is reduced in severe dysplasias of the larynx and cervix.

Molecular weight:

Ic50:

Applications

Application: IHC ; IF ; IP ; WB
Application notes:

Handling

Format: Liquid
Concentration:

1 mg/ml
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer: PBS only
Storage conditions: -20° C
Shipping conditions: Shipping at 4° C

Related tools

Related tools: Anti-Involucrin [SY5]

References

References: Original hybridoma first published in Burchell et al. 1987. Cancer Res. 47(20):5476-82. PMID: 2443241. ; Development and characterization of breast cancer reactive monoclonal antibodies directed to the core protein of the human milk mucin.