

# Anti-Involucrin [SY5] mAb

**Catalogue number:** 151163

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Fiona Watt

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**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-Involucrin [SY5] mAb

**Alternate name:** Anti-Involucrin; involucrin antibody

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** Clone SY5 recognises a protein of 66kDa-170kDa, identified as involucrin. Involucrin is a protein precursor of the epidermal cornified envelope and a differentiation marker of human keratinocytes. Involucrin expression is altered in pathological conditions such as psoriasis and other benign epidermal hyperplasias. This mAb stains the involucrin in a variety of sizes: 170kDa in MCF-7 cells, 66kDa in dog, and a doublet of 105kDa in pig. It's epitope maps between codon 421-568 of human involucrin. SY5 is useful for studies of changes in involucrin expression in pathological studies.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1 kappa

**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:** MCF-7 cells. Localized to upper spinous and granular layers in normal skin.

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Involucrin

**Target alternate names:**

**Target background:** 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:** 66-170 kDa

**Ic50:**

## Applications

**Application:** IF ; FACS ; 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 with 0.02% azide

**Storage conditions:**

-15° C to -25° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:** Anti-Involucrin, Recombinant [SY5]

## References

**References:** Doganay et al. 2017. Integr Biol (Camb). 9(11):857-867. PMID: 29098213. ; Gainey et al. 2008. J Virol. 82(19):9369-80. PMID: 18667520. ; A hyperfusogenic F protein enhances the oncolytic potency of a paramyxovirus simian virus 5 P/V mutant without compromising sensitivity to type I interferon. ; Shearer et al. 1984. J Immunol. 133(6):3096-101. PMID: 6491281. ; Monoclonal antibodies that distinguish between subspecies of human interferon-alpha and that detect interferon oligomers.

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