

## ARG62524 anti-Involucrin antibody [SY5]

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [SY5] recognizes Involucrin
Tested Reactivity	Hu, Dog, Glla, Mk, Owl, Pig
Species Does Not React With	Ms
Tested Application	FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB
Specificity	This antibody stains involucrin in different sizes: 120 kDa in human keratinocytes, 170kDa in MCF-7 cells, a doublet of ~115kDa and 150kDa in gorilla and owl monkey, 66kDa in dog (weak band) and a doublet of 105kDa in pig.
Host	Mouse
Clonality	Monoclonal
Clone	SY5
Isotype	IgG1
Target Name	Involucrin
Species	Human
Immunogen	Pure involucrin from human keratinocytes
Epitope	between codon 421-568 of human involucrin
Conjugation	Un-conjugated
Alternate Names	Involucrin

### Application Instructions

Application table	Application	Dilution
	FACS	1µg for 10 <sup>6</sup> cells
	ICC/IF	1:200 - 1:1000
	IHC-Fr	1:100 - 1:200
	IHC-P	1:100 - 1:500
	IP	1-2 µg / 500 µg protein
	WB	1:500 - 1:1000

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
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Purification	Immunogen affinity purified
Buffer	1X PBS buffer with < 0.1% sodium azide.
Preservative	< 0.1% sodium azide.
Concentration	2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links	<a href="#">GeneID: 3713 Human</a> <a href="#">GeneID: 407242 Pig</a> <a href="#">Swiss-port # P07476 Human</a> <a href="#">Swiss-port # P18175 Pig</a>
Gene Symbol	IVL
Gene Full Name	involucrin
Background	Involucrin, a component of the keratinocyte crosslinked envelope, is found in the cytoplasm and crosslinked to membrane proteins by transglutaminase. This gene is mapped to 1q21, among calpactin I light chain, trichohyalin, profillaggrin, loricrin, and calcyclin. [provided by RefSeq, Jul 2008]
Function	Part of the insoluble cornified cell envelope (CE) of stratified squamous epithelia. [UniProt]
Research Area	Cancer antibody; Signaling Transduction antibody
Calculated Mw	68 kDa
PTM	Substrate of transglutaminase. Some glutamines and lysines are cross-linked to other involucrin molecules, to other proteins such as keratin, desmoplakin, periplakin and envoplakin, and to lipids like omega-hydroxyceramide.
Cellular Localization	Cytoplasm

## Images

Involucrin (68 kD)  ARG62524 anti-Involucrin antibody [SY5] WB image

Western blot: HaCaT stained with ARG62524 anti-Involucrin antibody [SY5] at 1:1000 dilution.

From Chun-Yin Yang et al. Antioxidants (Basel). (2022), [doi: 10.3390/antiox11112304](https://doi.org/10.3390/antiox11112304), Fig. 7.