

Datasheet: 5390-9950

Description:	MOUSE ANTI HUMAN INVOLUCRIN
Specificity:	INVOLUCRIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SY5
Isotype:	lgG1
Quantity:	0.1 mg

Product Details

Applications	This product has been re	This product has been reported to work in the following applications. This information is					
	derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> .						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry			•			
	Immunohistology - Frozen	•					
	Immunohistology - Paraffin	•					
	ELISA	•					
	Immunoprecipitation	-					
	Western Blotting	•					
	Where this product has not been tested for use in a particular technique this does not						
	necessarily exclude its use in such procedures. Suggested working dilutions are give				ng dilutions are given as		
	a guide only. It is recomn	nended that	at the user	titrates the product	for use in their own		
	system using appropriate	e negative/	positive co	ontrols.			
	5 5 11 1	J	1				
Target Species	Human						
Species Cross	Reacts with: Pig, Monkey	y, Dog, Go	rilla				
Reactivity	N.B. Antibody reactivity and working conditions may vary between species. Cross				n species. Cross		
	reactivity is derived from testing within our laboratories, peer-reviewed publicatior personal communications from the originators. Please refer to references indicate						
	further information.						
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by	affinity ch	romatogra	phy on Protein A			
Buffer Solution	Phosphate buffered salin	е					

Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	0.5 mg/ml
Immunogen	Purified involucrin from human keratinocytes.
External Database	
Links	UniProt:
	P07476 Related reagents
	Entrez Gene:
	<u>3713</u> IVL <u>Related reagents</u>
RRID	AB 2128101
Fusion Partners	Spleen cells from immunized Balb/c mise were fused with cells from the P3X63Ag8 murine myeloma cell line.
Specificity	Mouse anti human involucrin antibody, clone SY5 recognizes human involucrin, a 585
	amino acid soluble protein encoded by the IVL gene expressed in epidermal keratinocytes
	as they tend towards terminal differentiation. Involucrin is produced in the stratum
	spinosum initially in the cell cytosol from where it moves to the cell membrane, associates
	with transglutaminase and becomes cross-linked to membrane proteins, offering structural
	support to the cell and forming a stable envelope below the plasma membrane. Mouse
	421-568 of human involucrin
	Involucrin expression is seen in the normal granular cells of the epidermis associated with
	the plasma membrane during the early phase of cornified envelope maturation (Ishida-
	Yamamoto et al. 1996) and expression is increased in psoriatic epidermis with abnormal
	cornified envelope maturation (Ishida-Yamamoto and Iizuka 1995). Involucrin staining is
	also maintained, associated with the cornified epidermis in epidermolytic hyperkeratosis, a
	condition associated with mutations to mutations in genes codong for cytokeratins 1 and
	$10 \left(\frac{151102}{151102} + \frac{1511010}{151102} \right).$
Histology Positive Control Tissue	MCF-7 cells. Localized to upper spinous and granular layers in normal skin.
References	1. Hudson, D.L. et al. (1992) Characterization of eight monoclonal antibodies to involucrin.
	2. Ishida-Yamamoto, A. <i>et al.</i> (1997) Involucrin and SPRR Are Synthesized Sequentially in Differentiating Cultured Enidermal Calls. Unvest Dermetel, 109: 12.6
	3 Caldelari R <i>et al.</i> (2000) Long-term culture of murine epidermal keratinocytes. Unvest
	Dermatol. 114: 1064-5.
	4. Ishida-Yamamoto, A. <i>et al.</i> (1996) Immunoelectron microscopic analysis of cornified cell
	envelope formation in normal and psoriatic epidermis. J Histochem Cytochem. 44: 167-75.
	5. Janes,S.M. and Watt, F.M. (2004) Switch from alphavbeta5 to alphavbeta6 integrin

	expression protects squamous cell carcinomas from anoikis. <u>J Cell Biol. 166: 419-31.</u>
	6. Michael, M. et al. (2014) BPAG1-e restricts keratinocyte migration through control of
	adhesion stability. J Invest Dermatol. 134: 773-82.
	7. Hanada, T. <i>et al.</i> (2014) Keratinization induced by air exposure in the reconstructed
	human epidermal model: An in vitro model of a cultured epithelial autograft J Biosci
	Bioeng, pii: S1389-1723(14)00071-1.
	8. Sawant S <i>et al.</i> (2016) Establishment of 3D Co-Culture Models from Different Stages of
	Human Tongue Tumorigenesis: Utility in Understanding Neoplastic Progression, PLoS
	One. 11 (8): e0160615.
	9 Srivastava S S <i>et al.</i> (2018) Keratin 5/14-mediated cell differentiation and
	transformation are regulated by TAp63 and Notch-1 in oral squamous cell
	carcinoma-derived cells. Oncol Rep. Mar 06 [Epub ahead of print]
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at
-	-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for
	short term use (up to 4 weeks) and store the remaining aliguots at -20°C.
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in
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Guarantee Health And Safety	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. 12 months from date of despatch Material Safety Datasheet documentation #10040 available at:
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Guarantee Health And Safety Information	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. 12 months from date of despatch Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77)	HRP	
Rabbit Anti Mouse IgG (STAR12)	RPE	
Rabbit Anti Mouse IgG (STAR8)	DyLight®800	
Goat Anti Mouse IgG (STAR76)	RPE	
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP	
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,	
	DyLight®650, DyLight®680, DyLight®800,	
	FITC, HRP	
Goat Anti Mouse IgG (STAR70)	FITC	
Rabbit Anti Mouse IgG (STAR9)	FITC	
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>		
Rabbit Anti Mouse IgG (STAR13)	HRP	
Recommended Negative Controls		

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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Printed on 14 Jan 2022

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