

## Datasheet: MCA597GA

**BATCH NUMBER 166954**

<b>Description:</b>	MOUSE ANTI HUMAN COLLAGEN VII
<b>Specificity:</b>	COLLAGEN VII
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LH7.2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1/25 - 1/100
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 given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Does not react with:Rat, Mouse, Pig
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide

## Stabilisers

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Crude extract of skin

## External Database Links

### UniProt:

[Q02388](#)

[Related reagents](#)

### Entrez Gene:

[1294](#)

COL7A1

[Related reagents](#)

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse Sp2 myeloma cell line

## Specificity

**Mouse anti Human collagen VII antibody, clone LH7.2** recognizes the carboxy-terminus of type VII collagen ([Kirkham \*et al.\* 1989](#)). Collagen VII is a basement membrane protein in stratified squamous epithelia which is involved in membrane organization through interaction with other ECM components ([Gammon \*et al.\* 1992](#)). Collagen VII is composed of three identical alpha chains, each having an amino-terminal non-collagenous domain and a carboxy-terminal collagenous domain.

Mouse anti Human collagen VII, clone LH7.2 has proved effective for immunohistochemical identification of basement membrane in human skin ([Watson \*et al.\* 2001](#)).

## References

1. Heagerty, A.H. *et al.* (1986) Identification of an epidermal basement membrane defect in recessive forms of dystrophic epidermolysis bullosa by LH 7:2 monoclonal antibody: use in diagnosis. [Br J Dermatol. 115 \(2\): 125-31.](#)
2. Leigh, I.M. *et al.* (1987) LH7.2 Monoclonal antibody detects type VII collagen in the sublamina densa zone of ectodermally-derived epithelia, including skin. [Epithelia 1: 17-29.](#)
3. Leigh, I.M. *et al.* (1988) Type VII collagen is a normal component of epidermal basement membrane, which shows altered expression in recessive dystrophic epidermolysis bullosa. [J Invest Dermatol. 90 \(5\): 639-42.](#)
4. Kirkham, N. *et al.* (1989) Type VII collagen antibody LH 7.2 identifies basement membrane characteristics of thin malignant melanomas. [J Pathol. 157 \(3\): 243-7.](#)
5. Herndon, D.N. *et al.* (1995) Characterization of growth hormone enhanced donor site healing in patients with large cutaneous burns. [Ann Surg. 221: 649-56.](#)
6. Craven, N.M. *et al.* (1997) Clinical features of photodamaged human skin are associated with a reduction in collagen VII. [Br J Dermatol. 137: 344-50.](#)
7. Ghohestani, R.F. *et al.* (1998) IgE antibodies in sera from patients with bullous pemphigoid are autoantibodies preferentially directed against the 230-kDa epidermal antigen (BP230). [J Clin Immunol. 18: 202-9.](#)
8. Watson, R.E. *et al.* (2001) A short-term screening protocol, using fibrillin-1 as a reporter

molecule, for photoaging repair agents. [J Invest Dermatol. 116: 672-8.](#)

9. Jolicoeur, F. *et al.* (2003) Basal cells of second trimester fetal breasts: immunohistochemical study of myoepithelial precursors. [Pediatr Dev Pathol. 6: 398-413.](#)

10. Al-Refu, K. and Goodfield, M. (2009) Basement membrane changes in lichen planopilaris. [J Eur Acad Dermatol Venereol. 23: 1289-93.](#)

11. Al-Refu, K. and Goodfield, M. (2011) Immunohistochemistry of ultrastructural changes in scarring lupus erythematosus. [Clin Exp Dermatol. 36: 63-8.](#)

<b>Storage</b>	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 aliquots at -20°C.
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA597GA">https://www.bio-rad-antibodies.com/SDS/MCA597GA</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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Printed on 18 Jan 2024

