Datasheet: MCA597GA

Description:	MOUSE ANTI HUMAN COLLAGEN VII
Specificity:	COLLAGEN VII
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	LH7.2
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
Species Cross Reactivity	Does not react with:Rat, Mouse, Pig
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
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). It 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. 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. 4. 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. 5. 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. 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. Al-Refu, K and Goodfield, M. (2011) Immunohistochemistry of ultrastructural changes in scarring lupus erythematosus. Clin Exp Dermatol. 36: 63-8. 8. 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. 9. Al-Refu, K. and Goodfield, M. (2009) Basement membrane changes in lichen planopilaris. J Eur Acad Dermatol Venereol. 23: 1289-93. 10. 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. 11. Jolicoeur, F. *et al.* (2003) Basal cells of second trimester fetal breasts: immunohistochemical study of myoepithelial precursors. Pediatr Dev Pathol. 6: 398-413.
Storage	Store at +4^{o}C for one month or at -20^{o}C for longer. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South America
Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide
Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Europe
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