

# Datasheet: MCA1455G BATCH NUMBER 1702

Description:	RAT ANTI HUMAN CARTILAGE OLIGOMERIC MATRIX PROTEIN		
Specificity:	CARTILAGE OLIGOMERIC MATRIX PROTEIN		
Other names:	COMP		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	MA37C94 (HC484D1)		
Isotype:	IgG2a		
Quantity:	0.2 mg		

# **Product Details**

Applications	•	This product has been reported to work in the following applications. This information is				
	derived from testing withi	derived from testing within our laboratories, peer-reviewed publications or personal				
	communications from the	communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-</u>				
	information. For general					
	rad-antibodies.com/proto	<u>cols</u> .				
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry			-		
	Immunohistology - Frozen					
	Immunohistology - Paraffin	•				
	ELISA	-				
	Immunoprecipitation	-				
	Western Blotting	•			1/200 - 1/2000	
	Where this product has n	Where this product has not been tested for use in a particular technique this does not				
	necessarily exclude its us	necessarily exclude its use in such procedures. Suggested working dilutions are given as				
	a quide only. It is recomm	a guide only. It is recommended that the user titrates the product for use in their own				
	system using appropriate			•		
Target Species	Human					
Product Form	Purified IgG - liquid					
Preparation	Purified IgG prepared by supernatant	affinity cl	hromatogi	raphy on Protein G fro	m tissue culture	
Buffer Solution	Phosphate buffered salin	е				
Preservative Stabilisers	0.09% Sodium Azide					

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human cartilage derived COMP
External Database Links	UniProt: <u>P49747</u> <u>Related reagents</u> Entrez Gene:
	1311 COMP Related reagents
Fusion Partners	Spleen cells from immunized Wistar rats were fused with cells of the mouse NS1 myeloma cell line
Specificity	Rat anti Human cartilage oligomeric matrix protein antibody, clone MA37C94 recognizes human cartilage oligomeric matrix protein (COMP), otherwise known as thrombospondin-5 (TSP-5). COMP is a 757 amino acid matrix glycoprotein bearing four EGF-like domains, a single TSP C-terminal domain and eight TSP type-3 repeats (Uniprot P49747). Defects in the COMP gene can lead to the presence of pseudoachondroplasia or multiple epiphyseal dysplasia (Posey <i>et al.</i> 2014). Rat anti Human cartilage oligomeric matrix protein, clone MA37C94 recognizes an epitope located in the central portion of the molecule and has been described as suitable for use in western blotting (Gagarina <i>et al.</i> 2008) and immunohistochemistry (Grigoriadis <i>et al.</i> 2006).
References	<ol> <li>Grigoriadis, A.<i>et al.</i> (2006) Establishment of the epithelial-specific transcriptome of normal and malignant human breast cells based on MPSS and array expression data. Breast Cancer Res. 8: R56.</li> <li>Milz, S. <i>et al.</i> (2007) An immunohistochemical study of the triangular fibrocartilage complex of the wrist: regional variations in cartilage phenotype. J Anat. 211: 1-7.</li> <li>Gagarina, V. <i>et al.</i> (2008) Cartilage oligomeric matrix protein protects cells against death by elevating members of the IAP family of survival proteins. J Biol Chem 283: 648-59.</li> <li>Jäger, M. <i>et al.</i> (2006) Ovine cord blood accommodates multipotent mesenchymal progenitor cells. In Vivo. 20: 205-14.</li> <li>Kobayashi, M. <i>et al.</i> (2016) Cartilage Oligomeric Matrix Protein Increases in Photodamaged Skin. J Invest Dermatol. 136 (6): 1143-9.</li> <li>Milz, S. <i>et al.</i> (2005) An immunohistochemical study of the extracellular matrix of the tarsal plate in the upper eyelid in human beings. J Anat. 206 (1): 37-45.</li> <li>Zilkens, C. <i>et al.</i> (2010) Spinning around or stagnation - what do osteoblasts and chondroblasts really like? Eur J Med Res. 15 (1): 35-43.</li> <li>Milz, S. <i>et al.</i> (2007) An immunohistochemical study of the triangular fibrocartilage complex of the wrist: regional variations in cartilage phenotype. J Anat. 211 (1): 1-7.</li> <li>Inui, S. <i>et al.</i> (2011) Identification and characterization of cartilage oligomeric matrix</li> </ol>

	protein as a novel pathogenic factor in keloids. <u>Am J Pathol. 17</u> 10. Viehöfer, A.F. <i>et al.</i> (2015) The molecular composition of the human iliolumbar ligament. <u>Spine J. 15 (6): 1325-31.</u> 11. Nemoto, M. <i>et al.</i> (2013) Tenascin-C Expression in Equine T During Proliferation and Migration. <u>J Equine Sci. 24 (2): 17-24.</u>	e extracellular matrix of the
Storage	Store at +4°C or at -20°C if preferred.	
	This product should be stored undiluted.	
	Storage in frost free freezers is not recommended. Avoid repeat as this may denature the antibody. Should this product contain a recommend microcentrifugation before use.	• •
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1455G 10040	
Regulatory	For research purposes only	

## **Related Products**

### **Recommended Secondary Antibodies**

Rabbit Anti Rat IgG (STAR16)	DyLight®800			
Rabbit Anti Rat IgG (STAR17)	<u>FITC</u>			
Goat Anti Rat IgG (STAR72)	HRP			
Goat Anti Rat IgG (STAR69)	<u>FITC</u>			
Goat Anti Rat IgG (STAR73)	RPE			
Rabbit Anti Rat IgG (STAR21)	HRP			
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71) DyLight®550, DyLight®650, DyLight®800				
Goat Anti Rat IgG (STAR131)	Alk. Phos., Biotin			

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	Email: antibody_sales_us@bio	-rad.com	Email: antibody_sales_uk@bic	-rad.com	Email: antibody_sales_de@bio-rad.com

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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