

Datasheet: MCA1451G

Description:	MOUSE ANTI HUMAN AGGRECAN		
Specificity:	AGGRECAN		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	7E1		
Isotype:	lgG1		
Quantity:	0.2 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	•			
Immunohistology - Paraffin			•	
ELISA	•			
Immunoprecipitation	•			
Western Blotting	•			
Immunocytochemistry	•			

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	Reacts with: Bovine
Reactivity	Does not react with:Chicken, Fish, Rat
	N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
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 (NaN ₃)		
Carrier Free	Yes		
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml		
Immunogen	Purified human articular cartilage aggrecan.		
External Database Links	UniProt: P16112 Related reagents Entrez Gene: 176 ACAN Related reagents		
Synonyms	AGC1, CSPG1, MSK16		
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS1 myeloma cell line.		
Specificity	Mouse anti Human aggrecan antibody, clone 7E1 recognizes human aggrecan, a proteoglycan and member of the aggrecan/versican proteoglycan family, which forms a major component of the extracellular matrix (ECM) of both cartilage and the central nervous system (CNS).		
	A panel of core protein-directed antibodies against human aggrecan, revealed the distribution of different aggrecan isoforms within the CNS, and sub-divided the isoforms into clusters 1-5 accordingly. There is a difference in the relative abundance of these isoforms when comparing brain and cartilage tissues (<u>Virgintino et al. 2009</u>).		
	Mouse anti Human aggrecan antibody, clone 7E1 recognizes a ~205 kDa trypsin derived fragment of aggrecan.		
	Note: Originally described as being of the isotype IgM, clone 7E1 was found to be unstable and was re-cloned by the originator and the new stable sub-clone was confirmed as being an IgG1.		
References	 Virgintino, D. <i>et al.</i> (2009) Differential distribution of aggrecan isoforms in perineuronal nets of the human cerebral cortex. <u>J Cell Mol Med. 13 (9B): 3151-73.</u> Aigner, T. <i>et al.</i> (2002) Prognostic relevance of cell biologic and biochemical features in conventional chondrosarcomas. <u>Cancer. 94: 2273-81.</u> Hashemi Beni, B. <i>et al.</i> (2008) Induction of Chondrogenic Differentiation of Human 		

Res. 11: 10-17

Adipose-Derived Stem Cells with TGF-β3 in Pellet Culture System Iranian J basic Med

- 4. Garciadiego-Cázares, D. *et al.* (2015) Regulation of α 5 and α V Integrin Expression by GDF-5 and BMP-7 in Chondrocyte Differentiation and Osteoarthritis. <u>PLoS One. 10 (5):</u> e0127166.
- 5. Mukherjee, D.P. *et al.* (2009) Effect of 3D-microstructure of bioabsorbable PGA:TMC scaffolds on the growth of chondrogenic cells. <u>J Biomed Mater Res B Appl Biomater.</u> 88 (1): 92-102.
- 6. Wei, A. *et al.* (2016) Expression of growth differentiation factor 6 in the human developing fetal spine retreats from vertebral ossifying regions and is restricted to cartilaginous tissues. <u>J Orthop Res. 34 (2): 279-89.</u>

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 aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 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 (STAR77...)

Rabbit Anti Mouse IgG (STAR12...)

RPE

Goat Anti Mouse IgG (STAR70...)

FITC

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP

Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (STAR76...) RPE

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Rabbit Anti Mouse IgG (STAR13...) HRP

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M409753:221020'

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