

Aggrecan Antibody to N-terminal Neoepitope ARG Mouse Monoclonal Antibody

Catalog Number 1042001

For research use only

INTRODUCTION

During differentiation of neural precursor cells, neurospheres downregulate Chondroitin sulfate proteoglycans (CSPGs). Proliferating neural precursors synthesize lecticans, including aggrecan, which are downregulated with differentiation, suggesting a link between CSPGs and CNS precursor biology.

Aggrecan degradation products containing this neoepitope are rapidly released from the tissue in model explant culture systems and are also present in the synovial fluids of patients with degenerative joint disease.

IMMUNOGEN ARGSV synthetic peptide conjugate.

CLONE BC-3

HOST Mouse

MYELOMA x63-Ag8.653

ISOTYPE IgG1

LIGHT CHAIN TYPE kappa

SPECIFICITY

Recognizes the aggrecanase (ADAMTS-1, -4 & -5)-generated N-terminal neoepitope ARG after cleavage between amino acids EGE and ARG within the interglobular domain of aggrecanase-catabolised aggrecan (Human aggrecan sequence enumeration). This antibody will not recognize the sequence ARG if it is in the non-cleaved intact aggrecan protein core; i.e. it will only recognize the aggrecanase generated neoepitope ARG.

This antibody cross-reacts with human, rat, cat, cow, dog, guinea pig, horse, pig, rabbit and sheep.

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PURITY Affinity purified on protein G

STORAGE BUFFER PBS, no preservatives

FORM Liquid, 1 ml/vial

CONCENTRATION 0.1 mg/mL

APPLICATION • Western-Blotting

Suggested dilution: 1:100

Detects a variety of epitopes between 50 and 250 kDa

ELISA

• IHC with frozen sections or formalin/PFA-fixed paraffin embedded sections

TECHNICAL NOTES Samples must be deglycosylated using 0.01 Units Chondroitinase ABC (Sigma), 0.01 Units

Keratanase (Seikagaku) and 0.0001 Units Keratanase II (Seikagaku) per 10µg S-GAG of non-

deglycosylated aggrecan for optimal epitope recognition (1, 2).

STORAGE The antibody is stable until the expiry date given on the label if stored at -20 °C. Repeated

freezing and thawing should be avoided. Aliquoting is recommended.

EXPIRATION See Vial Label

REFERENCES

1. Little CB et al. Matrix metalloproteinases are involved in C-terminal and interglobular domain processing of cartilage aggrecan in late stage cartilage degradation. Matrix

Biol 21:271-88 (2002).

2. Caterson B et al. Mechanisms involved in cartilage proteoglycan catabolism. Matrix Biol

19:333-44 (2000).

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