

Mouse Aggrecan, N-terminal neoepitope ARG Monoclonal Antibody | anti-ACAN antibody

Monoclonal Antibody to ARG (Clone BC3)

CATALOG # AAA63035	HOST Mouse	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

Aggrecan; N-terminal neoepitope ARG; Monoclonal Antibody; Monoclonal Antibody to ARG (Clone BC3); Aggrecan Antibody; anti-ACAN antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	BC-3
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.
Purity/Purification	Affinity purified on protein G
Form/Format	Liquid ; PBS, no preservatives.
Sequence Length	721
Applicable Applications for anti-ACAN antibody	WB (Western Blot)
Immunogen	ARGSV synthetic peptide conjugate.
Myeloma	x63-Ag8.653
Light Chain Type	kappa
Cross Reactivity	Human, Rat, Cat, Cow, Dog, Guinea pig, Horse, Pig, Rabbit, Sheep.
Technical Notes	Samples must be deglycosylated using 0.01 Units Chondroitinase ABC (Sigma), 0.01 Units eratanase (Seikagaku) and 0.0001 Units Keratanase II (Seikagaku) per 10ug S-GAG of nondeglycosylated aggrecan for optimal epitope recognition.
Preparation and Storage	Store at -20 °C. Repeated freezing and thawing should be avoided. Aliquoting is recommended.

ADDITIONAL INFORMATION

Related Product Information for anti-ACAN antibody	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 monoclonal antibody to N-terminal neoepitope ARG (mouse, clone BC-3). 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.
Product Categories/Family for anti-ACAN antibody	Antibodies to Aggrecan

NCBI AND UNIPROT INFORMATION

NCBI GI #	22209083
NCBI GeneID	176
UniProt Accession #	P16112; Q13650; Q9UCD3; Q9UCP4; Q9UCP5; Q9UDE0
NCBI Official Full Name	Aggrecan
NCBI Official Synonym Full Names	aggrecan
NCBI Official Symbol	ACAN
NCBI Official Synonym Symbols	AGC1; SEDK; AGCAN; CSPG1; MSK16; CSPGCP
NCBI Protein Information	aggrecan core protein; large aggregating proteoglycan; cartilage-specific proteoglycan core protein; chondroitin sulfate proteoglycan core protein 1
UniProt Protein Name	Aggrecan core protein
UniProt Gene Name	ACAN
UniProt Synonym Gene Names	AGC1; CSPG1; MSK16; CSPCP
UniProt Entry Name	PGCA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/aggrecan-n-terminal-neoepitope-arg-antibody-clone-bc-3-western-blot-elisa/63035>