

ARG23678 anti-ACAN / Aggrecan Neoepitope antibody [N38]

Package: 50 µg

Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [N38] recognizes ACAN / Aggrecan Neoepitope
Tested Reactivity	Hu
Tested Application	WB
Specificity	The antibody reacts with the N-terminal sequence ARGSVIL of aggrecan core protein 2 fragments produced by proteolysis at the aggrecanase site within the interglobular domain of aggrecan (aggrecan-IGD). It does not react to a significant extent with the sequence ARGSVIL contained within uncleaved polypeptide chains. ARGSVIL-Peptides produced from recombinant aggrecan-IGD in the presence of aggrecanases bind strongly to the antibody both in Western blots and in ELISA. ARGSVIL-Fragments derived from native aggrecan require prior deglycosylation for antibody binding.
Host	Mouse
Clonality	Monoclonal
Clone	N38
Isotype	IgG1
Target Name	ACAN / Aggrecan Neoepitope
Species	Human
Immunogen	Human Aggrecan (ARGSVIL)
Epitope	N-terminal sequence of aggrecan core protein 2 (ARGSVIL)
Conjugation	Un-conjugated
Alternate Names	AGC1; SEDK; AGCAN; CSPG1; MSK16; CSPGCP

Application Instructions

Application table	Application	Dilution
	WB	1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein A. The IgG1 fraction was purified by affinity chromatography.
Buffer	PBS (pH 7.5), 20 mM Na-phosphate, 150 mM NaCl and 0.01% Thimerosal.
Preservative	0.01% Thimerosal
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

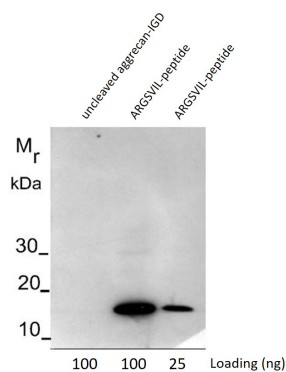
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ACAN
Gene Full Name	aggrecan
Background	This gene is a member of the aggrecan/versican proteoglycan family. The encoded protein is an integral part of the extracellular matrix in cartilagenous tissue and it withstands compression in cartilage. Mutations in this gene may be involved in skeletal dysplasia and spinal degeneration. Multiple alternatively spliced transcript variants that encode different protein isoforms have been observed in this gene. [provided by RefSeq, Jul 2008]
Function	This proteoglycan is a major component of extracellular matrix of cartilagenous tissues. A major function of this protein is to resist compression in cartilage. It binds avidly to hyaluronic acid via an N-terminal globular region. [UniProt]
Calculated Mw	261 kDa
PTM	Contains mostly chondroitin sulfate, but also keratan sulfate chains, N-linked and O-linked oligosaccharides. The release of aggrecan fragments from articular cartilage into the synovial fluid at all stages of human osteoarthritis is the result of cleavage by aggrecanase. [UniProt]

Images



ARG23678 anti-ACAN / Aggrecan Neoepitope antibody [N38] WB image

Western blot: 100 ng of uncleaved aggrecan-IGD, 100 ng of ARGSVIL-peptide and 25 ng of ARGSVIL-peptide (left to right) stained with ARG23678 anti-ACAN / Aggrecan Neoepitope antibody [N38].