Aggrecan (AGC) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Aggrecan (AGC), Polyclonal Antibody
Full Product Name	PE-Linked Polyclonal Antibody to Aggrecan (AGC)
Product Gene Name	anti-AGC antibody
Product Synonym Names	ACAN; AGC1; AGCAN; CSPG1; CSPCP; CSPGCP; MSK16; SEDK; Cartilage-specific proteoglycan core protein; Large Aggregating Proteoglycan; Chondroitin Sulfate Proteoglycan 1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Rat
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: AGC (MBS2004563) PE Conjugated Antibody: AGC (MBS2060487)
Matching Pairs	PE Conjugated Antibody: AGC (MBS2060487) Immunogen: AGC (MBS2010049)
Molecular Weight	239,235 Da
OMIM	M55172 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	AGC (Pro34~Glu147)
Conjugation	PE
Cross Reactivity	Mouse
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2004563
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-AGC antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-AGC antibody	MBS2060487 is an antibody targeting AGC. Also known as PE-Linked Polyclonal Antibody to Aggrecan (AGC). Reactive in Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-AGC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AGC. It may not necessarily be applicable to this product.

NCBI GI #	22209083
NCBI GeneID	176
NCBI Accession #	AAH36445.1

UniProt Secondary Accession #	Q13650; Q9UCD3; Q9UCP4; Q9UCP5; Q9UDE0
UniProt Related Accession #	P16112
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
UniProt Protein Name	Aggrecan core protein
UniProt Synonym Protein Names	Cartilage-specific proteoglycan core protein; CSPCP
UniProt Gene Name	ACAN
UniProt Synonym Gene Names	AGC1; CSPG1; MSK16; CSPCP; Chondroitin sulfate proteoglycan 1
NCBI Protein Information	aggrecan core protein
NCBI Summary for AGC	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]
UniProt Comments for AGC	ACAN: 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. Defects in ACAN are the cause of spondyloepiphyseal dysplasia type Kimberley (SEDK). Spondyloepiphyseal dysplasias are a heterogeneous group of congenital chondrodysplasias that specifically affect epiphyses and vertebrae. The autosomal dominant SEDK is associated with premature degenerative arthropathy. Defects in ACAN are the cause of spondyloepimetaphyseal dysplasia aggrecan type (SEMD-ACAN). A bone disease characterized by severe short stature, macrocephaly, severe midface hypoplasia, short neck, barrel chest and brachydactyly. The radiological findings comprise long bones with generalized irregular epiphyses with widened metaphyses, especially at the knees, platyspondyly, and multiple cervical-vertebral clefts. Defects in ACAN are the cause of osteochondritis dissecans short stature and early-onset osteoarthritis (OD). It is a type of osteochondritis defined as a separation of cartilage and subchondral bone from the surrounding tissue, primarily affecting the knee, ankle and elbow joints. It is clinically characterized by multiple osteochondritic lesions in knees and/or hips and/or elbows, disproportionate short stature and early-onset osteoarthritis. Belongs to the aggrecan/versican proteoglycan family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion; Extracellular matrix; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 15q26.1 Cellular Component: extracellular matrix; extracellular region; Golgi lumen; lysosomal lumen; proteinaceous extracellular matrix Molecular Function: extracellular matrix structural constituent; hyaluronic acid binding; protein binding Biological Process: cell adhesion; central nervous system development; extracellular matrix disassembly; extracellular matrix organization and biogenesis; keratan sulfate biosynthetic process; keratan sulfate catabolic process; skeletal development Disease: Osteochondritis Dissecans, Short Stature, And Early-onset Osteoarthritis; Spondyloepimetaphyseal Dysplasia, Aggrecan Type; Spondyloepiphyseal Dysplasia, Kimberley Type
Research Articles on AGC	**1.** Citrullinated Proteoglycan Aggrecan is a new member of citrullinated proteins identified in human joints.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-mouse-rat-antibody/aggrecan-agc/2060487