

Human Aggrecan ELISA Kit | ACAN elisa kit

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CATALOG #
AAA263012

REACTIVITY
Human

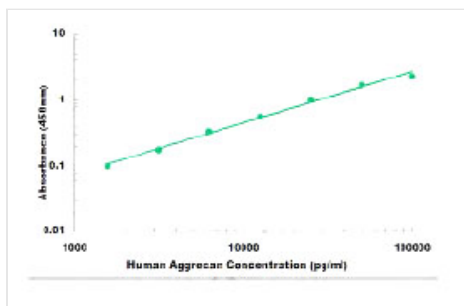
PRODUCT SYNONYMS

Aggrecan; Human Aggrecan ELISA Kit; AGC1; CSPG1; MSK16; Aggrecan core protein; Cartilage-specific proteoglycan core protein; CSPCP; Chondroitin sulfate proteoglycan core protein 1; Chondroitin sulfate proteoglycan 1; ACAN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Aggrecan ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Aggrecan proteins within the range of 1560 pg/ml - 100000 pg/ml.
Sequence Length	2415
Samples	Cell Culture Supernates, Serum, Urine
Sensitivity	<50 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ACAN elisa kit	Principle of the Assay: The Human Aggrecan ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Aggrecan in Cell Culture Supernates, Serum, Urine. This assay employs an antibody specific for Human Aggrecan coated on a 96-well plate. Standards and samples are pipetted into the wells and Aggrecan present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Aggrecan antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Aggrecan bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background: Aggrecan, also known as cartilage-specific proteoglycan core protein (CSPCP) or chondroitin sulfate proteoglycan 1, is a protein that in humans is encoded by the ACAN gene. It is a critical component for cartilage structure and the function of joints. Aggrecan provides intervertebral disc and cartilage with the ability to resist compressive loads. The localized high concentrations of aggrecan provide the osmotic properties necessary for normal tissue function with the GAGs producing the swelling pressure that counters compressive loads on the tissue. This functional ability is dependent on a high GAG/aggrecan concentration being present in the tissue extracellular matrix. Also, Aggrecan plays an important role in the organization of the extracellular spaces between neurons in the brain.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	129886
NCBI GeneID	176
UniProt Accession #	P16112; Q13650; Q9UCD3; Q9UCP4; Q9UCP5; Q9UDE0
Molecular Weight	239,235 Da
NCBI Official Full Name	Aggrecan core protein
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
UniProt Protein Name	Aggrecan core protein
UniProt Gene Name	ACAN
UniProt Synonym Gene Names	AGC1; CSPG1; MSK16; CSPCP; Chondroitin sulfate proteoglycan 1
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.