

Human Aggrecan core protein (ACAN) ELISA Kit | ACAN elisa kit

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CATALOG #
AAA55999

REACTIVITY
Human

PRODUCT SYNONYMS

Aggrecan core protein (ACAN); Human Aggrecan core protein (ACAN) ELISA Kit; AGC1; AGCAN; CSPG1; CSPGCP; MSK16; SEDK; cartilage-specific proteoglycan core protein; chondroitin sulfate proteoglycan 1; large aggregating proteoglycan; ACAN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Human ACAN. No significant cross-reactivity or interference between Human ACAN and analogues was observed.
Sequence Length	2327
Samples	Serum, plasma and other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.625 ng/mL - 40 ng/mL
Sensitivity	0.31 ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays) Three samples of known concentration were tested in forty separate assays to assess inter-assay precision. CV (%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 2-8 degree C.

ADDITIONAL INFORMATION

Related Product Information for ACAN elisa kit

Intended Uses: For the quantitative detection of Human Aggrecan core protein (ACAN) concentration in serum, plasma and other biological fluids.

Principle of the Assay: This assay employs a two-site sandwich ELISA to quantitate ACAN in Human serum, plasma. An antibody specific for ACAN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ACAN present is bound by the immobilized antibody. After removing any unbound substances, a biotin- conjugated antibody specific for ACAN is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ACAN bound in the initial step. The color development is stopped and the intensity of the color is measured.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27806761
NCBI GeneID	280985
NCBI Accession #	NP_776406.1
NCBI GenBank Nucleotide #	NM_173981.2

UniProt Accession #	P13608; P79117; Q28159; Q6XL66
Molecular Weight	242,481 Da
NCBI Official Full Name	aggrecan core protein
NCBI Official Synonym Full Names	aggrecan
NCBI Official Symbol	ACAN
NCBI Official Synonym Symbols	AGC1
NCBI Protein Information	aggrecan core protein
UniProt Protein Name	Aggrecan core protein
UniProt Gene Name	ACAN
UniProt Synonym Gene Names	AGC1; CSPCP

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://www.aaabiotech.com/human-elisa-kits/aggrecan-core-protein-acan/55999>