

Human Aggrecan ELISA Kit | ACAN elisa kit

Human Aggrecan PicoKine Fast ELISA Kit

CATALOG #
AAA125351

REACTIVITY
Human

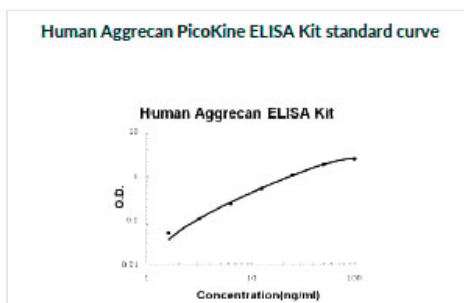
PRODUCT SYNONYMS

Aggrecan; Human Aggrecan PicoKine Fast ELISA Kit; Human Aggrecan; Aggrecan core protein; Cartilage-specific proteoglycan core protein; CSPCP; Chondroitin sulfate proteoglycan core protein 1; Chondroitin sulfate proteoglycan 1; Aggrecan core protein 2; ACAN; AGC1; CSPG1; MSK16; ACAN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human ACAN
Sequence Length	2415
Samples	Cell culture supernates, serum and urine
Detection Range	1.56ng/ml-100ng/ml
Sensitivity	<50pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ACAN elisa kit	Principle of the Assay: The Picokine™ Human ACAN Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human ACAN with a 96-well strip plate that is pre-coated with antibody specific for ACAN. The detection antibody is a biotinylated antibody specific for ACAN. The capture antibody is monoclonal antibody from mouse, the detection antibody is monoclonal antibody from mouse. The kit contains recombinant Human ACAN with immunogen: NSO, V20-G675. The kit is analytically validated with ready to use reagents. To measure Human ACAN, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Human ACAN in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human ACAN in the sample.!!Background/Introduction: 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
UniProt Accession #	P16112
NCBI Official Full Name	Aggrecan core protein
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/acan-human-elisa-kits/aggrecan/125351>