

## Rabbit Aggrecan core protein (ACAN) ELISA Kit

Catalog No: #EK12168



Package Size: #EK12168-1 48T #EK12168-2 96T

Orders: order@signalwayantibody.com

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## Description

Product Name	Rabbit Aggrecan core protein (ACAN) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rabbit ( <i>Oryctolagus cuniculus</i> )
Other Names	AGC1; AGCAN; CSPG1; CSPGCP; MSK16; SEDK; cartilage-specific proteoglycan core protein chondroitin sulfate proteoglycan 1 large aggregating proteoglycan
Accession No.	Q28670
Uniprot	Q28670
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.625-40 ng/mL

Sensitivity:0.239 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate ACAN in samples. An antibody specific for ACAN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyACAN 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.**Product Overview:**Aggrecan, or large aggregating proteoglycan, is a proteoglycan, or a protein modified with carbohydrates; the human form of the protein is 2316 amino acids long and can be expressed in multiple isoforms due to alternative splicing. Along with Type-II collagen, aggrecan forms a major structural component of cartilage, particularly articular cartilage.Aggrecan consists of two globular structural domains at the N-terminal end and one globular domain at the C-terminal end, separated by a large domain heavily modified with glycosaminoglycans. The two main modifier moieties are themselves arranged into distinct regions, a chondroitin sulfate and a keratan sulfate region.

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Note: This product is for in vitro research use only