

Human Versican core protein ELISA Kit | VCAN elisa kit

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CATALOG #
AAA99394

REACTIVITY
Human

PRODUCT SYNONYMS

Versican core protein; Human Versican core protein ELISA Kit; VCAN (Versican core protein)/CSPG2/GHAP/PG-M/Chondroitin sulfate proteoglycan 2/WGN/Chondroitin sulfate proteoglycan core protein 2/ERVR/Glial hyaluronate-binding protein/Large fibroblast proteoglycan/WGN1/versican/versican proteoglycan; VCAN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of VCAN. No significant cross-reactivity or interference between VCAN and analogues was observed.
Sequence Length	1642
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	1.563-100ng/ml
Sensitivity	0.938ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level VCAN were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level VCAN were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a VCAN ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A-not applicable)

X	ng/ml	0	1.562	3.125	6.25	12.5	25	50	100
Y	OD450	0.004	0.554	0.933	1.262	1.732	1.988	2.126	2.217

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for VCAN elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-VCAN antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- VCAN antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRPStreptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the VCAN amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of VCAN can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	255918079
NCBI GeneID	1462
NCBI Accession #	NP_001157570.1
NCBI GenBank Nucleotide #	NM_001164098.1
Molecular Weight	369,688 Da
NCBI Official Full Name	versican core protein isoform 4
NCBI Official Synonym Full Names	versican
NCBI Official Symbol	VCAN
NCBI Official Synonym Symbols	WGN; ERVR; GHAP; PG-M; WGN1; CSPG2
NCBI Protein Information	versican core protein
UniProt Protein Name	Versican core protein
UniProt Gene Name	VCAN
UniProt Synonym Gene Names	CSPG2; Chondroitin sulfate proteoglycan 2; GHAP
UniProt Entry Name	CSPG2_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/vcan-human-elisa-kits/versican-core-protein/99394>