

Human Asporin ELISA Kit | ASPN elisa kit

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CATALOG #
AAA17351

REACTIVITY
Human

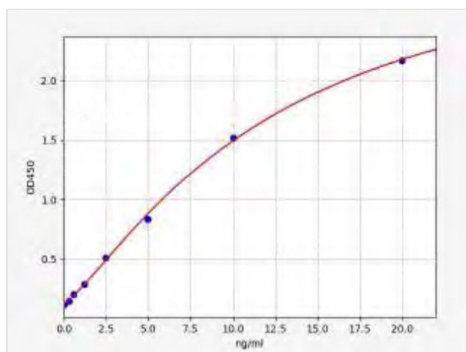
PRODUCT SYNONYMS

Asporin; Human Asporin ELISA Kit; ASPN/OS3/PLAP-1/PLAP1/SLRR1C/Periodontal ligament-associated protein 1; ASPN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize ASPN, no obvious cross reaction with other analogues
Sequence Length	379
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
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



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ASPN elisa kit	Background: Asporin (ASPN) has been identified as one of the members of the class I small leucine-rich proteoglycans (SLRPs) family in the extracellular matrix (ECM). ASPN may regulate chondrogenesis by inhibiting transforming growth factor-beta 1-induced gene expression in cartilage. ASPN also binds collagen and calcium and may induce collagen mineralization. Polymorphisms in the aspartic acid repeat region of ASPN gene are associated with a susceptibility to osteoarthritis, and also with intervertebral disc disease. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti ASPN antibody was precoated onto the 96-well plate. The biotin conjugated anti ASPN antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with ASPN conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of ASPN in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13625797
NCBI GeneID	54829
Molecular Weight	43,417 Da
NCBI Official Full Name	asporin
NCBI Official Synonym Full Names	asporin
NCBI Official Symbol	ASPN
NCBI Official Synonym Symbols	OS3; PLAP1; PLAP-1; SLRR1C
NCBI Protein Information	asporin
UniProt Protein Name	Asporin
UniProt Gene Name	ASPN
UniProt Synonym Gene Names	PLAP1; SLRR1C; PLAP-1
UniProt Entry Name	ASPN_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/aspn-human-elisa-kits/asporin/17351>