

Rat Hyaluronan and proteoglycan link protein 1 (HAPLN1) ELISA Kit

Catalog No: #EK11577

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Package Size: #EK11577-1 48T #EK11577-2 96T

Description

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|--------------------|--|
| Product Name | Rat Hyaluronan and proteoglycan link protein 1 (HAPLN1) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Rat (<i>Rattus norvegicus</i>) |
| Other Names | CRTL1; Cartilage link protein cartilage linking protein 1 |
| Accession No. | P03994 |
| Uniprot | P03994 |
| GeneID | 29331; |
| 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:0.312-20 ng/mL

Sensitivity:0.113 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:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate HAPLN1 in samples. An antibody specific for HAPLN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any HAPLN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for HAPLN1 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 HAPLN1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Cartilage link protein stabilizes aggregates of aggrecan and hyaluronan, giving cartilage its tensile strength and elasticity. Cartilage provides the template for endochondral ossification and is crucial for determining the length and width of the skeleton. During endochondral bone formation, hypertrophic chondrocytes die and the cartilage is replaced with bone matrix. The deduced amino acid sequence is 354 residues long and shows a striking degree of similarity to porcine, rat, and chicken link protein sequences. By in situ hybridization, they mapped the gene to 5q13-q14.1. CRTL1 gene comprises 5 exons and is spread over more than 60 kb. Primer extension and S1 nuclease protection analysis revealed transcription initiation to be 315 bases upstream from the translation initiation codon.

Note: This product is for in vitro research use only