Mouse Cartilage matrix protein (MATN1) ELISA Kit

Catalog No: #EK9866

Package Size: #EK9866-1 48T #EK9866-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Cartilage matrix protein (MATN1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	CMP; CRTM; cartilage matrix protein
Accession No.	P51942
Uniprot	P51942
GeneID	17180;
Storage	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. 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).

Application Details

Detect Range:Request Information

Sensitivity:Request Information

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 MATN1 in samples. An antibody specific for MATN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMATN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MATN1 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 MATN1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:MATN1 is a member of von Willebrand factor A domain containing protein family. This family of proteins are thought to be involved in the formation of filamentous networks in the extracellular matrices of various tissues. Mutations of this gene have been associated with variety of inherited chondrodysplasias.Three microsatellite polymorphisms in the gene, respectively consisting of 103 bp, 101 bp and 99 bp, have been linked to idiopathic scoliosis.The genomic probe was also used to screen a human retina cDNA library. The protein sequence predicted by the cDNA clones has 496 amino acids, including a 22-residue signal peptide. The structure of the CMP gene (also symbolized CRTM) and polypeptide were strikingly similar in the chicken and in the human. The human gene spans 12 kb and has 8 exons and 7 introns.

Note: This product is for in vitro research use only