

Human ADAM metallopeptidase with thrombospondin type 1 motif4 (ADAMTS4) ELISA Kit



Catalog No: #EK7711

Orders: order@signalwayantibody.com

Package Size: #EK7711-1 48T #EK7711-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human ADAM metallopeptidase with thrombospondin type 1 motif4 (ADAMTS4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ADAMTS-2; ADAMTS-4; ADMP-1; KIAA0688; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif; 4 aggrecanase-1
Accession No.	O75173
Uniprot	O75173
GeneID	9507;
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:0.312-20 ng/mL

Sensitivity:0.134 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 ADAMTS4 in samples. An antibody specific for ADAMTS4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADAMTS4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADAMTS4 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 ADAMTS4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**ADAMTS4 encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of the family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The enzyme encoded by this gene lacks a C-terminal TS motif. It is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The cleavage of aggrecan and brevican suggests key roles of this enzyme in arthritic disease and in the central nervous system, potentially, in the progression of glioma.

Note: This product is for in vitro research use only