

## Human ADAMTS5 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0505	<b>Applications</b>	ELISA
<b>Synonyms</b>	ADAMTS5;ADAM-TS 11;ADAM-TS 5;ADAM-TS5;ADAMTS-11;ADAMTS-5;ADAMTS11;ADMP-2;ADAM metalloproteinase with thrombospondin type 1 motif 5		

### Kit components & Storage

Title	Specifications	Storage
Human ADAMTS5 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human ADAMTS5 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

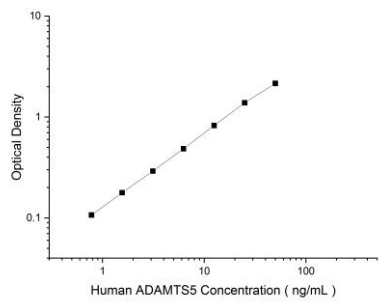
### Product Information

Items		Characteristic (E-KAB-0505)	
		Human ADAMTS5 Capture Antibody	Human ADAMTS5 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human ADAMTS5 protien	Recombinant Human ADAMTS5 protien
	Swissprot	Q9UNA0	
Product details	Reactivity	Human	Human
	Host	Goat	Mouse
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Antigen Affinity	Protein A or G
	Specificity	Detects Human ADAMTS5 in ELISAs.	

### For Research Use Only

## Applications

### Human ADAMTS5 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4 µg/mL	Human ADAMTS5 Capture Antibody	
ELISA Detection	1:1000-1:10000	Human ADAMTS5 Detection Antibody (Biotin)	

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

Metalloproteinase that plays an important role in connective tissue organization, development, inflammation and cell migration. Extracellular matrix (ECM) degrading enzyme that show proteolytic activity toward the hyaluronan group of chondroitin sulfate proteoglycans (CSPGs) including ACAN, VCAN, BCAN and NCAN. Cleavage within the hyaluronans occurs at Glu-Xaa recognition motifs. Plays a role in embryonic development, including limb and cardiac morphogenesis, and skeletal muscle development through its VCAN remodeling properties. Cleaves VCAN in the pericellular matrix surrounding myoblasts, facilitating myoblast contact and fusion which is required for skeletal muscle development and regeneration. Participates in development of brown adipose tissue and browning of white adipose tissue. Plays an important role for T-lymphocyte migration from draining lymph nodes following viral infection.