

## ARG83741 Mouse ADAMTS1 ELISA Kit (Rapid One-Step)

Package: 96 wells  
Store at: 4°C, -20°C

### Summary

Product Description	ARG83741 Mouse ADAMTS1 ELISA Kit (Rapid One-Step) is an Enzyme Immunoassay kit for the quantification of Mouse ADAMTS1 in serum and plasma (heparin), cell culture supernatants.  It is a <a href="#">rapid One-step</a> 90 minutes protocol.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	ADAMTS1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	10 pg/ml
Sample Type	serum and plasma (heparin), cell culture supernatants
Standard Range	93.8 pg/ml - 6000 pg/ml
Sample Volume	50 µl
Alternate Names	ADAMTS-1; A disintegrin and metalloproteinase with thrombospondin motifs 1; METH-1; METH1; EC 3.4.24.-; ADAM-TS1; C3-C5; ADAM-TS 1

### Application Instructions

Assay Time	~ 1.5 hours
------------	-------------

### Properties

Form	96 well
Storage instruction	Store the kit at 4°C, -20°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol	ADAMTS1
Gene Full Name	ADAM metalloproteinase with thrombospondin type 1 motif, 1
Background	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motif) 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 protein encoded by this gene contains two disintegrin loops and three C-terminal TS motifs and has anti-angiogenic activity. The expression of this gene may be associated with various inflammatory processes as well as development of cancer

cachexia. This gene is likely to be necessary for normal growth, fertility, and organ morphology and function. [provided by RefSeq, Jul 2008]

**Function**

Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover (By similarity). Has angiogenic inhibitor activity. Active metalloprotease, which may be associated with various inflammatory processes as well as development of cancer cachexia. May play a critical role in follicular rupture. [UniProt]

**PTM**

The precursor is cleaved by a furin endopeptidase.

Glycosylated. Can be O-fucosylated by POFUT2 on a serine or a threonine residue found within the consensus sequence C1-X(2)-(S/T)-C2-G of the TSP type-1 repeat domains where C1 and C2 are the first and second cysteine residue of the repeat, respectively. Fucosylated repeats can then be further glycosylated by the addition of a beta-1,3-glucose residue by the glucosyltransferase, B3GALT1. Fucosylation mediates the efficient secretion of ADAMTS family members. Also can be C-glycosylated with one or two mannose molecules on tryptophan residues within the consensus sequence W-X-X-W of the TPRs, and N-glycosylated. These other glycosylations can also facilitate secretion (By similarity). [UniProt]

**Cellular Localization**

Extracellular matrix; Secreted. [Uniprot]