



## Rabbit Anti-ADAMTS12 antibody

SL1385R

<b>Product Name:</b>	ADAMTS12
<b>Chinese Name:</b>	整合素样金属蛋白酶与凝血酶1型-12抗体
<b>Alias:</b>	A disintegrin and metalloproteinase with thrombospondin motifs 12; A disintegrin like and metalloprotease with thrombospondin type 1 motif 12; ADAM metallopeptidase with thrombospondin type 1 motif 12; ADAM TS 12.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	175kDa
<b>Cellular localization:</b>	Extracellular matrixSecretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human ADAMTS12:301-450/1594
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	This gene 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-1) motif. Individual members of this family differ in the number of C-terminal TS-1 motifs, and some have unique C-

terminal domains. The enzyme encoded by this gene contains eight TS-1 motifs. It may play roles in pulmonary cells during fetal development or in tumor processes through its proteolytic activity or as a molecule potentially involved in regulation of cell adhesion. [provided by RefSeq].

**Function:**

Metalloprotease that may play a role in the degradation of COMP. Cleaves also alpha-2 macroglobulin and aggregan. Has anti-tumorigenic properties.

**Subunit:**

Interacts with COMP.

**Subcellular Location:**

Secreted, extracellular space, extracellular matrix.

**Tissue Specificity:**

Expressed in skeletal muscle and fat. Detected at significant levels in fetal lung. Widely expressed in gastric carcinomas and in cancer cells of diverse origin.

**Post-translational modifications:**

The precursor is cleaved by a furin endopeptidase.

Subjected to an intracellular maturation process yielding a 120 kDa N-terminal fragment containing the metalloproteinase, disintegrin, one TSP type-1 and the Cys-rich domains and a 83 kDa C-terminal fragment containing the spacer 2 and four TSP type-1 domains. 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, B3GALTL. 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.

**Similarity:**

Contains 1 disintegrin domain.

Contains 1 peptidase M12B domain.

Contains 1 PLAC domain.

Contains 8 TSP type-1 domains.

**SWISS:**

P58397

**Gene ID:**

81792

**Database links:**

[Entrez Gene: 81792](#)Human

[Entrez Gene: 239337](#)Mouse

[Oimim: 606184](#)Human

[SwissProt: P58397](#)Human

[SwissProt: Q3UM66](#)Mouse

[SwissProt: Q3UXR3](#)Mouse

[SwissProt: Q811B3](#)Mouse

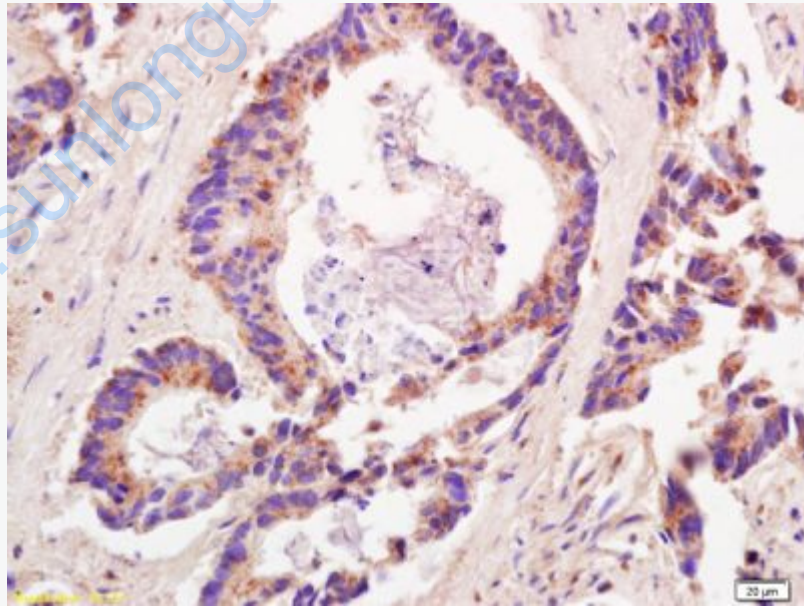
[Unigene: 481865](#)Human

[Unigene: 224825](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**

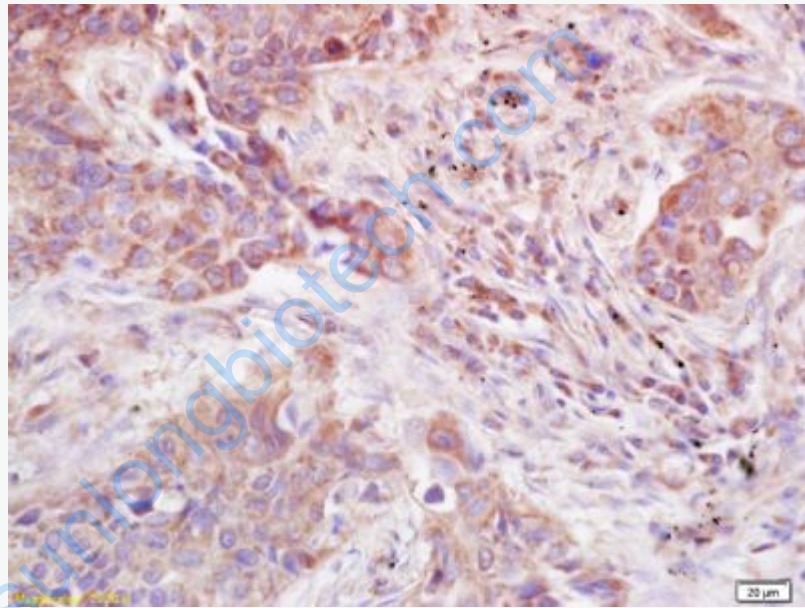


Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block

endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ADAMTS12 Polyclonal Antibody, Unconjugated(SL1385R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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