

Rabbit Anti-ADAMTS7 (NT)antibody

SL0733R

Product Name ADAMTS7(NT)

Chinese Name 整合素样金属蛋白酶与凝血酶 1 型-7(N 端)抗体

Alias A disintegrin and metalloproteinase with thrombospondin motifs 7; ADAM metalloproteinase with thrombospondin type 1 motif 7; A disintegrin and metalloproteinase with thrombospondin motifs 7 preproprotein; A disintegrin and metalloproteinase with thrombospondin motifs 7; A disintegrin like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif 7; A disintegrin like and metalloproteinase with thrombospondin type 1 motif 7; ADAM metalloproteinase with thrombospondin type 1 motif 7; ADAM metalloproteinase with thrombospondin type 1 motif 7 preproprotein; ADAM TS 7; ADAM TS7; ADAMTS 7; ADAMTS7; COMPase; DKFZp434H204; AT57_MOUSE.

Research Area Cell biology Signal transduction Kinases and Phosphatases Cytoskeleton

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, Rat,

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 158kDa

Cellular localization The cell membrane Extracellular matrix Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human ADAMTS7: 241-340/1595

Lsotype IgG

Purification affinity purified by Protein A

Buffer 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Solution

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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

PubMed [PubMed](#)

Metalloprotease that may play a role in the degradation of COMP. Binds 1 zinc ion per subunit. pH dependence: Optimum pH is between 7.5 and 9.5. [Subcellular location] Secreted, extracellular space, extracellular matrix (By similarity). Note=Also found associated with the external cell surface[Tissue specificity] Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Detected in meniscus, bone, tendon, cartilage, synovium, fat and ligaments. Up-regulated in articular cartilage and synovium from arthritis patients.

Function:

Metalloprotease that may play a role in the degradation of COMP.

Subunit:

Interacts with COMP.

Subcellular Location:

Secreted, extracellular space, extracellular matrix. Note=Also found associated with the external cell surface.

**Product
Detail**

Tissue Specificity:

Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Detected in meniscus, bone, tendon, cartilage, synovium, fat and ligaments.

Post-translational modifications:

N-glycosylated.

O-glycosylated proteoglycan. Contains chondroitin sulfate (By similarity).

May be cleaved by a furin endopeptidase (By similarity). The precursor is sequentially processed.

Similarity:

Contains 1 disintegrin domain.

Contains 1 peptidase M12B domain.

Contains 1 PLAC domain.

Contains 8 TSP type-1 domains.

SWISS:

Q9UKP4

Gene ID:

11173

Database links:

[Entrez Gene: 11173](#) Human

[Omim: 605009](#) Human

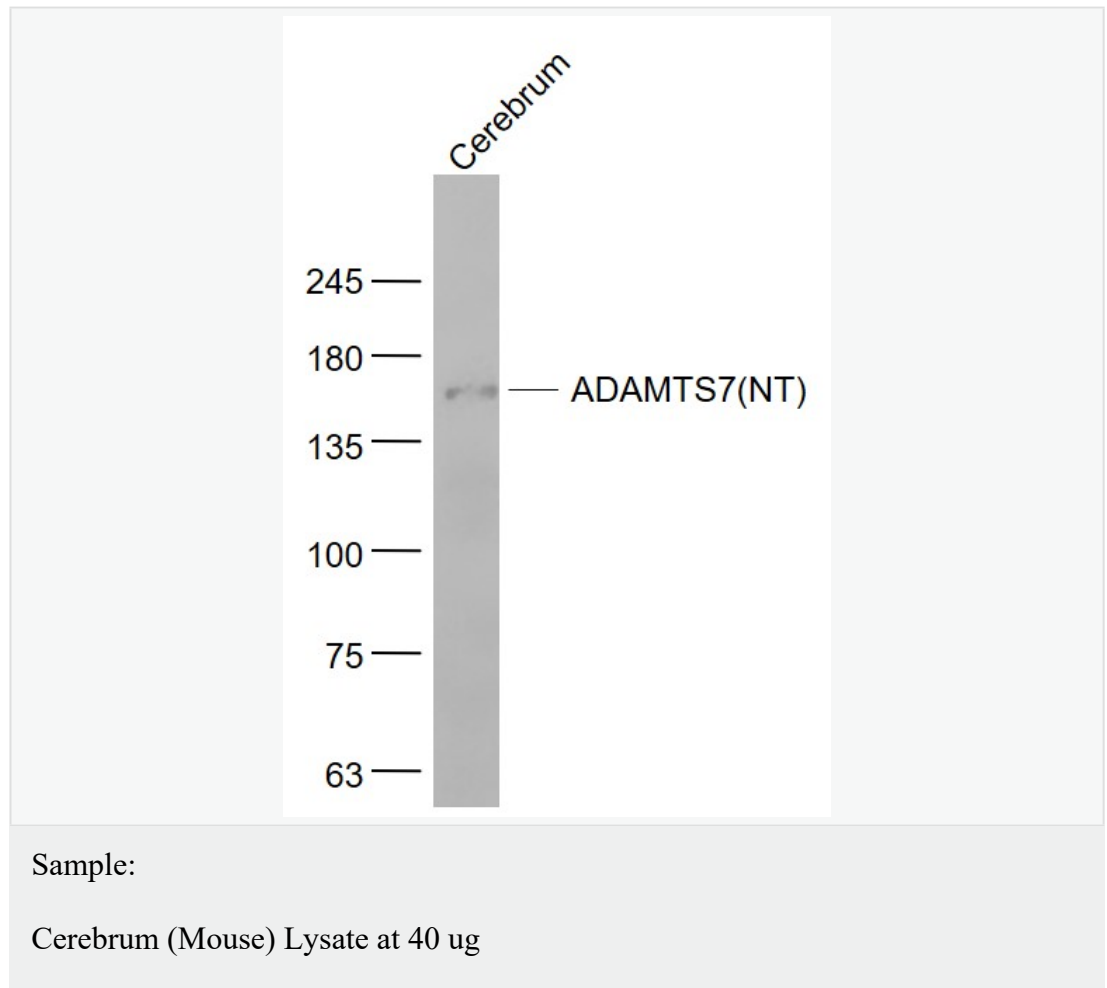
[SwissProt: Q6P7J9](#) Human

[SwissProt: Q9UKP4](#) Human

[Unigene: 16441](#) Human

整合素样金属蛋白酶与凝血酶 1 型-7 用于动脉粥样硬化导致早期血管基质修复作用的研究

**Product
Picture**

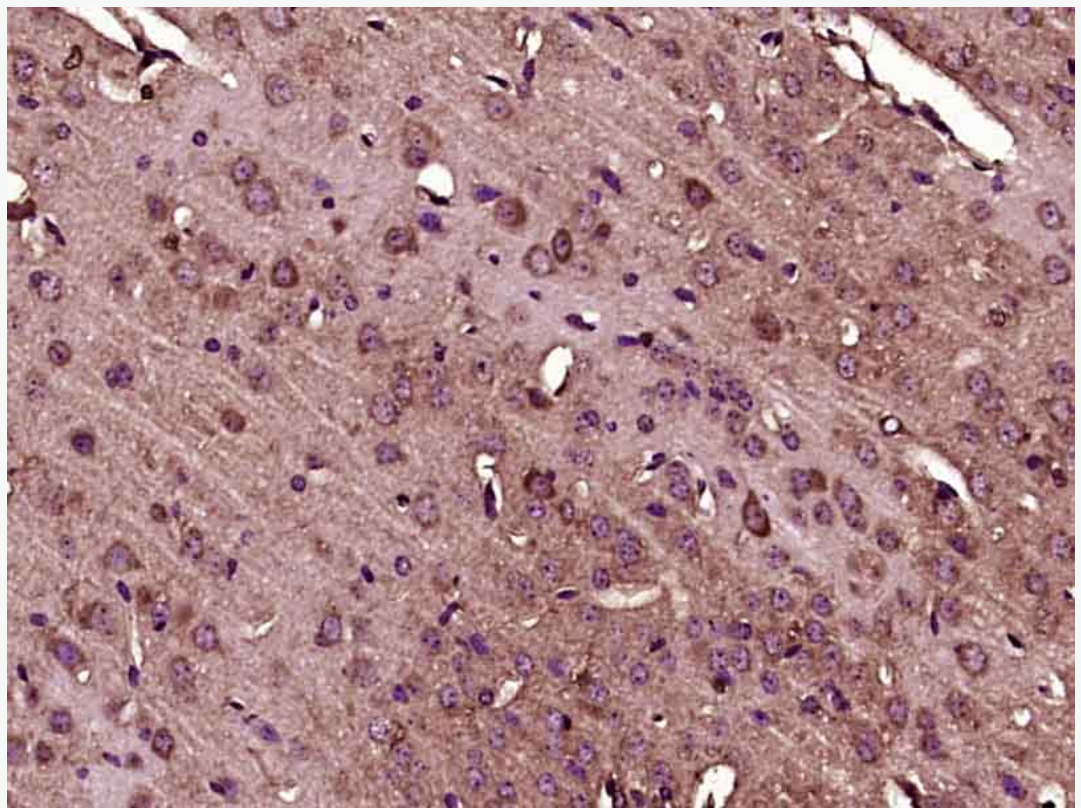


Primary: Anti- ADAMTS7(NT) (SL0733R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

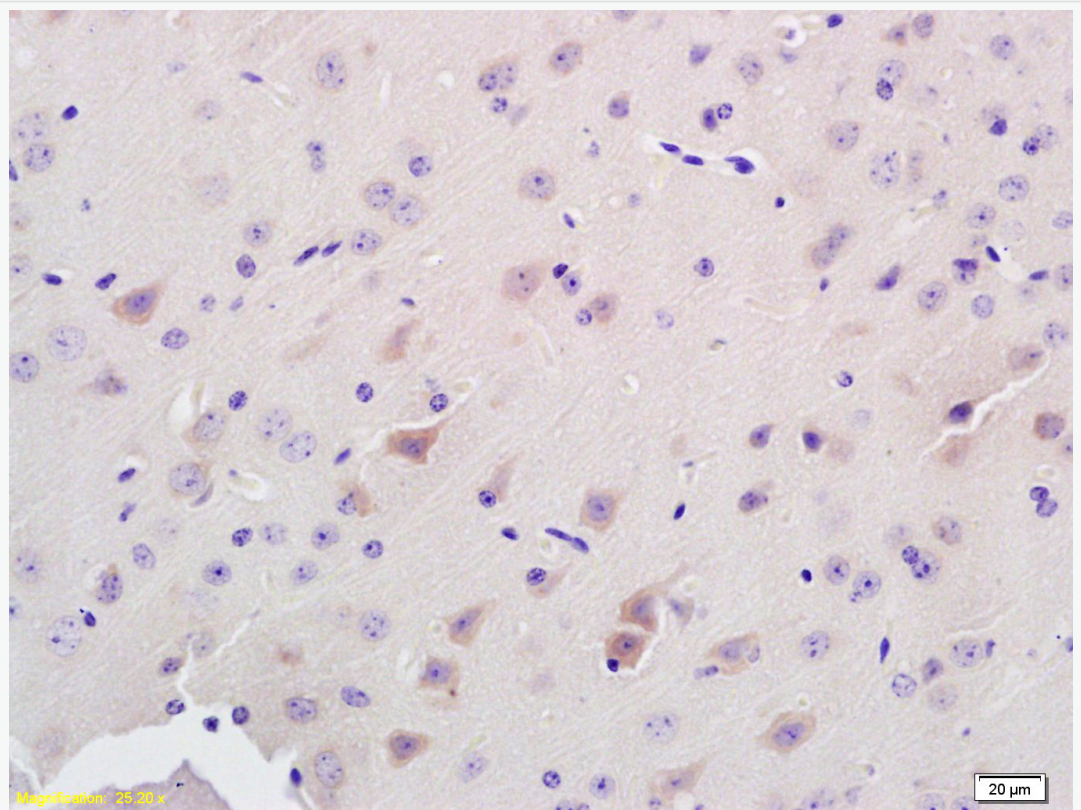
Predicted band size: 158 kD

Observed band size: 158 kD

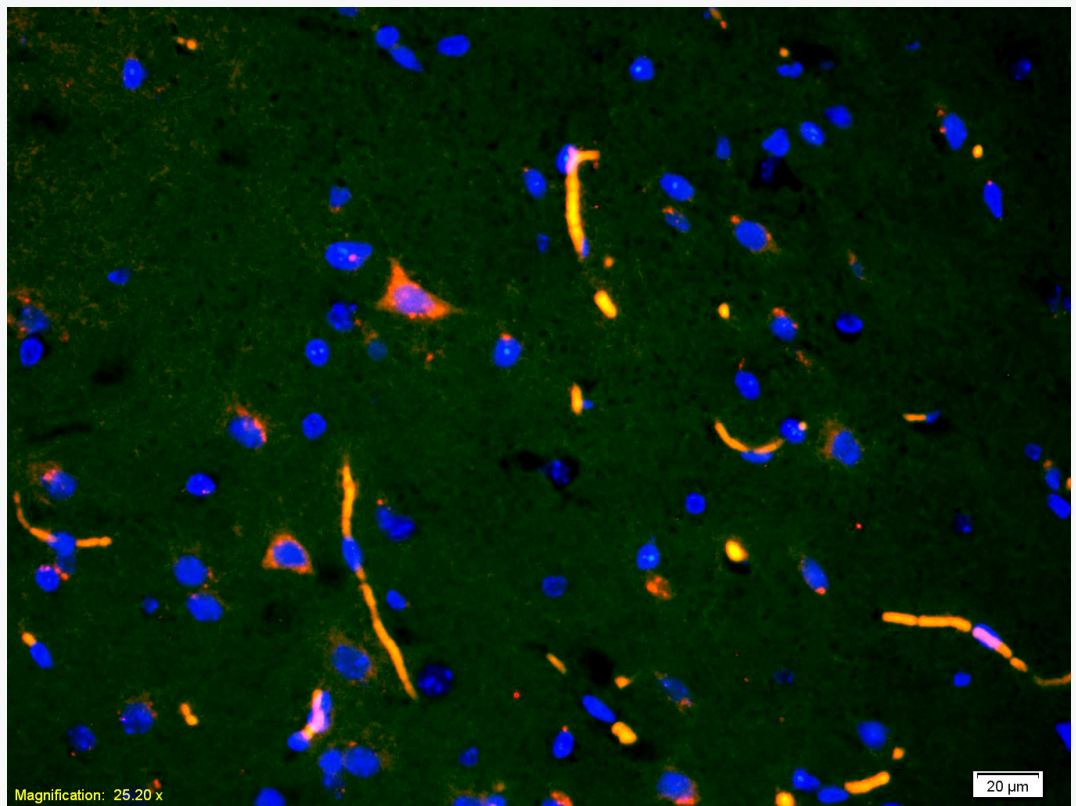


Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ADAMTS7(NT)) Polyclonal Antibody, Unconjugated (SL0733R) at 1:400 overnight at 4°C, followed by

operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, 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-ADAMTS7 Polyclonal Antibody, Unconjugated(SL0733R)
1:200, overnight at 4°C, followed by conjugation to the secondary
antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-ADAMTS7 Polyclonal Antibody, Unconjugated(SL0733R)
1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3
conjugated(SL0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.
DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei