

## Product datasheet

# Anti-ADAMTS7 antibody ab28557

★★★★★ [1 Abreviews](#) [6 References](#)

### Overview

---

<b>Product name</b>	Anti-ADAMTS7 antibody
<b>Description</b>	Rabbit polyclonal to ADAMTS7
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab28557 recognizes metalloproteinase ADAMTS7.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human ADAMTS7. Immunogen in the spacer-1 region of the C-terminus.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

---

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituents: PBS, 50% Sucrose
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	The antibody has been peptide-affinity purified.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

---

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab28557 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	

### Application notes

WB: 1/1,000 when using colorimetric substrates such as BCIP/NBT and 1/5,000 for chemiluminescent substrates. Predicted molecular weight: 184 kDa. This antibody recognizes the zymogen of ADAMTS7 at around 300 kD in reduced Western blots, activated or alternatively spliced forms at 180-120 kD (major bands) and breakdown products at 58-45 kD in cell lysates. EDTA/EGTA treatment of tissues or lysates is required to see latent zymogen. Dilution optimised using Chromogenic detection. Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.

### Target

#### Function

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

#### Tissue specificity

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

#### Sequence similarities

Contains 1 disintegrin domain.  
Contains 1 peptidase M12B domain.  
Contains 1 PLAC domain.  
Contains 8 TSP type-1 domains.

#### Domain

The spacer domain and the TSP type-1 domains are important for a tight interaction with the extracellular matrix.  
The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.

#### Post-translational modifications

N-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. N- and C-glycosylations can also facilitate secretion. O-glycosylated proteoglycan. Contains chondroitin sulfate.  
May be cleaved by a furin endopeptidase (By similarity). The precursor is sequentially processed.

#### Cellular localization

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

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery

- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors