

## Product datasheet

# Anti-ADAMTS13 antibody ab28273

[2 Images](#)

### Overview

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<b>Product name</b>	Anti-ADAMTS13 antibody
<b>Description</b>	Rabbit polyclonal to ADAMTS13
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab28273 recognises the Carboxyterminal end of the long form of ADAMTS13.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide based on the carboxyterminal end of full length human ADAMTS13. (Peptide available as <a href="#">ab41251</a> .)

### General notes

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.

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&As

### Properties

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<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 long term.
<b>Storage buffer</b>	pH: 7.40 Constituent: PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab28273 in the following tested applications.

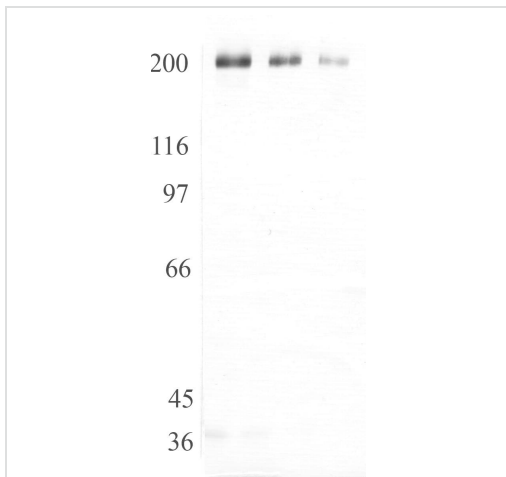
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.
WB		1/1000 - 1/5000. Detects a band of approximately 190 kDa (predicted molecular weight: 154 kDa). 1/1000, when using colorimetric substrates such as BCIP/NBT - 1/5000, when using chemiluminescent substrates. Detects a band of approximately 190 kDa. Glycosylation and the abundance of cysteine residues gives ADAMTS13 an apparent molecular weight of 190 kDa on reduced SDS PAGE gels. Several bands between 110-190 kDa

## Target

<b>Function</b>	Cleaves the vWF multimers in plasma into smaller forms.
<b>Tissue specificity</b>	Plasma. Expressed primarily in liver.
<b>Involvement in disease</b>	Defects in ADAMTS13 are the cause of thrombotic thrombocytopenic purpura congenital (TTP) [MIM:274150]; also known as Upshaw-Schulman syndrome (USS). A hematologic disease characterized by hemolytic anemia with fragmentation of erythrocytes, thrombocytopenia, diffuse and non-focal neurologic findings, decreased renal function and fever.
<b>Sequence similarities</b>	Contains 2 CUB domains. Contains 1 disintegrin domain. Contains 1 peptidase M12B domain. Contains 8 TSP type-1 domains.
<b>Domain</b>	The pro-domain is not required for folding or secretion and does not perform the common function of maintaining enzyme latency. The spacer domain is necessary to recognize and cleave vWF. The C-terminal TSP type-1 and CUB domains may modulate this interaction.
<b>Post-translational modifications</b>	May contain a C-mannosylation site and O-fucosylation sites in the TSP type-1 domains. The precursor is processed by a furin endopeptidase which cleaves off the pro-domain.
<b>Cellular localization</b>	Secreted.

## Images



Western blot - Anti-ADAMTS13 antibody (ab28273)

**All lanes :** Anti-ADAMTS13 antibody (ab28273) at 1 µg/ml

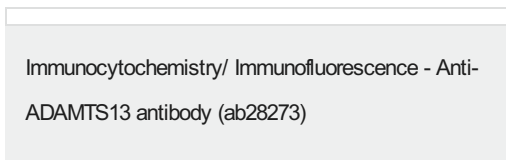
**Lane 1 :** Recombinant Human ATS-13 at 0.08 µg

**Lane 2 :** Recombinant Human ATS-13 at 0.04 µg

**Lane 3 :** Recombinant Human ATS-13 at 0.02 µg

**Predicted band size:** 154 kDa

Glycosylation and the abundance of cysteine residues gives ADAMTS-13 an apparent molecular weight of about 190 kDa on reduced SDS PAGE gels.



Immunocytochemistry/ Immunofluorescence - Anti-ADAMTS13 antibody (ab28273)

ICC/IF image of ab28273 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab28273, 1µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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

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