

### Anti-ADAMTS15 antibody ab45047

★☆☆☆☆ **1 Abreviews** **4 References**

#### Overview

<b>Product name</b>	Anti-ADAMTS15 antibody
<b>Description</b>	Rabbit polyclonal to ADAMTS15
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide based on the propeptide region of human ADAMTS-15 ADAMTS15.(Peptide available as <a href="#">ab45243</a> .)
<b>General notes</b>	<p>We have a range of domain specific antibodies for this target. For a full list please <a href="#">see all ADAMTS15 antibodies</a>.</p> <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 -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	<p>pH: 7.40</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituents: PBS, 50% Glycerol, 2.9% Sodium chloride</p>
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

#### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab45047 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: 1/1000 - 1/5000. Predicted molecular weight: 103 kDa. The recommended starting concentration for Western blots is 1:1,000 when using colorimetric substrates such as BCIP/NBT, and 1:5,000 for chemiluminescent substrates. Dilution optimised using Chromogenic detection. Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.

## Target

### Tissue specificity

Expressed in fetal liver and kidney, but not in any of the adult tissues examined.

### Sequence similarities

Contains 1 disintegrin domain.  
Contains 1 peptidase M12B domain.  
Contains 3 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

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, 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.

### Cellular localization

Secreted > extracellular space > extracellular matrix.

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

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