

## Product datasheet

# Anti-ADAMTS5 antibody ab182795

[9 References](#) [4 Images](#)

### Overview

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<b>Product name</b>	Anti-ADAMTS5 antibody
<b>Description</b>	Rabbit polyclonal to ADAMTS5
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human ADAMTS5 aa 500-600. Database link: <a href="#">Q9UNA0</a> <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: Human fetal brain tissue. IHC-P: Human lung, tonsil and kidney tissue.
<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

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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. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.4 Preservative: 0.05% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 49% PBS  (without Mg <sup>2+</sup> and Ca <sup>2+</sup> )
<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 ab182795 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
IHC-P		1/10 - 1/50.
WB		1/500 - 1/2000. Predicted molecular weight: 102 kDa.

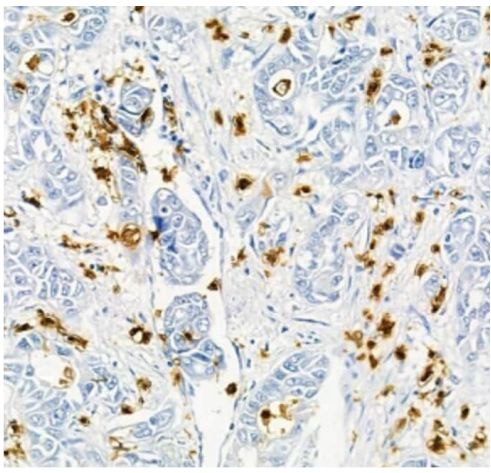
## Target

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<b>Function</b>	Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover. May play an important role in the destruction of aggrecan in arthritic diseases. May play a role in proteolytic processing mostly during the peri-implantation period.
<b>Tissue specificity</b>	Expressed at low level in placenta primarily but also detected in heart and brain, cervix, uterus, bladder, esophagus, rib cartilage, chondroblastoma, fibrous tissue and a joint capsule from an arthritic patient.
<b>Sequence similarities</b>	Contains 1 disintegrin domain. Contains 1 peptidase M12B domain. Contains 2 TSP type-1 domains.
<b>Domain</b>	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.
<b>Post-translational modifications</b>	The precursor is cleaved by a furin endopeptidase.
<b>Cellular localization</b>	Secreted > extracellular space > extracellular matrix.

## Images

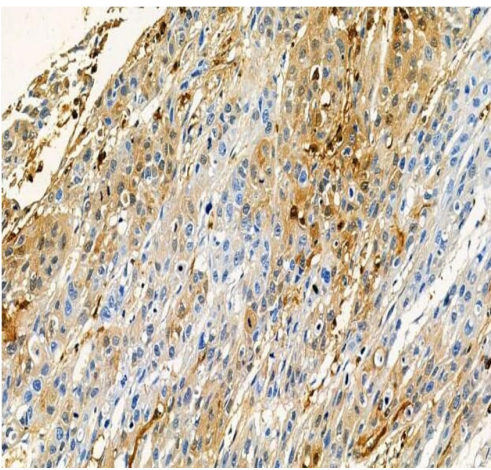
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADAMTS5 antibody (ab182795)

Immunohistochemical analysis of paraffin embedded human lung tissue labeling ADAMTS5 with ab182795 at 1/50 dilution.

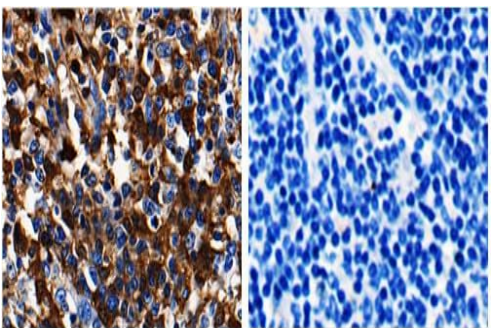
The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADAMTS5 antibody (ab182795)

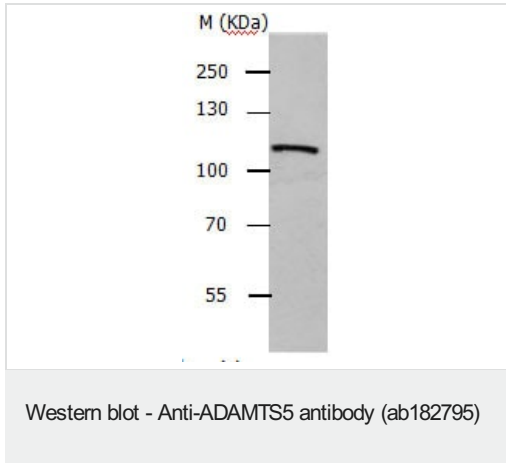
Immunohistochemical analysis of paraffin embedded human kidney tissue labeling ADAMTS5 with ab182795 at 1/50 dilution.

The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADAMTS5 antibody (ab182795)

Immunohistochemical analysis of paraffin embedded human tonsil tissue labeling ADAMTS5 with ab182795 at 1/10. Image on the right is treated with the synthetic peptide.



Anti-ADAMTS5 antibody (ab182795) at 1/650 dilution + Human fetal brain tissue at 40 µg

**Secondary**

Goat anti Rabbit IgG at 1/3000 dilution

**Predicted band size:** 102 kDa

**Exposure time:** 3 seconds

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

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