

Product datasheet

Anti-ADAMTS5 antibody ab231595

1 References 4 Images

Overview

<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>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Recombinant fragment (His-T7-tag) corresponding to Rat ADAMTS5 aa 267-622. (Expressed in E.coli). Sequence:  RQVELLLVADSSMAKMYGRGLQHLLTLASIANRLYSH ASIENHIRLAVV KVVVLTDKSLEVSKNAATTLKNFCKWQHQNQLGDD HEEHYDAAILFTRE DLGGHSCDTLGMADVGTICSPERSCAVIEDDGLHAA FTVAHEIGHLGL SHDDSKFCEENFGSTEDKRLMSSILTSIDASKPWSKC TSATITEFLDDGH GNCLLDVPRKQILGPEELPGQTYDATQQCNLTFGPEY SVCPGMDVCARLW CAVVRQGQMVCLTKKLPAVEGTPCGKGRICLQGKCV DKTKKKYYSTSSHG NWGSWGPWGQCSRSCGGGVQFAYRHCNNPAPRNS GRYCTGKRAIRSCSV IPCPPN  Database link: <a href="#">Q6TY19</a>  <div style="text-align: right;">  <a href="#">Run BLAST with</a>                   <a href="#">Run BLAST with</a> </div>
<b>Positive control</b>	WB: Human A549 and HeLa cell lysates; recombinant rat ADAMTS5 protein. IHC-P: Ovary tissue.

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 long term. Avoid freeze / thaw cycle.

<b>Storage buffer</b>	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Antigen-specific affinity chromatography followed by Protein A affinity chromatography.
<b>Clonality</b>	Polyclonal

## Applications

Our [Abpromise guarantee](#) covers the use of **ab231595** in the following tested applications.

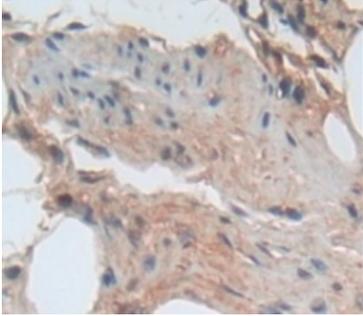
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 - 20 µg/ml.
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 102 kDa.

## Target

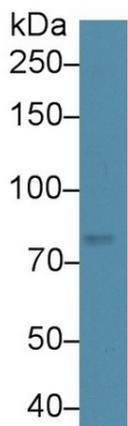
<b>Function</b>	Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover. May play an important role in the destruction of aggrecan in arthritic diseases. May play a role in proteolytic processing mostly during the peri-implantation period.
<b>Tissue specificity</b>	Expressed at 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



Formalin-fixed, paraffin-embedded rat ovary tissue stained for ADAMTS5 using ab231595 at 20  $\mu\text{g}/\text{ml}$  in immunohistochemical analysis. DAB staining.

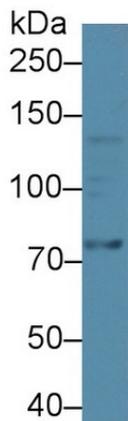
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADAMTS5 antibody (ab231595)



Anti-ADAMTS5 antibody (ab231595) at 2  $\mu\text{g}/\text{ml}$  + HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

**Predicted band size:** 102 kDa

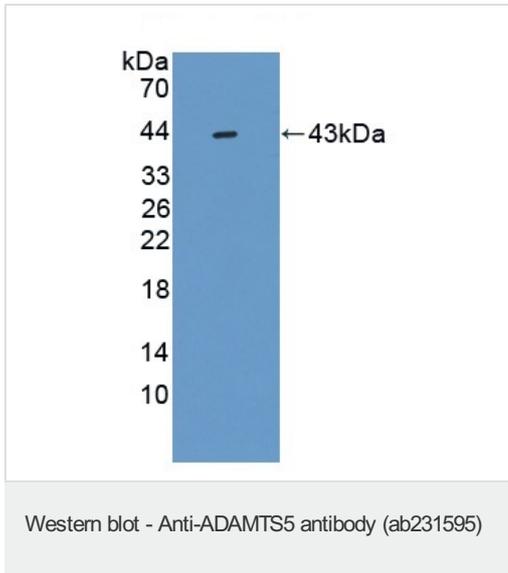
Western blot - Anti-ADAMTS5 antibody (ab231595)



Anti-ADAMTS5 antibody (ab231595) at 2  $\mu\text{g}/\text{ml}$  + A549 (Human lung carcinoma cell line) cell lysate

**Predicted band size:** 102 kDa

Western blot - Anti-ADAMTS5 antibody (ab231595)



Anti-ADAMTS5 antibody (ab231595) at 2 µg/ml + Recombinant rat ADAMTS5 protein

**Predicted band size:** 102 kDa

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