

Product datasheet

Anti-ADAMTS7 antibody ab28557

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Overview

Product name	Anti-ADAMTS7 antibody
Description	Rabbit polyclonal to ADAMTS7
Host species	Rabbit
Specificity	ab28557 recognizes metalloproteinase ADAMTS7.
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human ADAMTS7. Immunogen in the spacer-1 region of the C-terminus.

General notes

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	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.

Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 50% Sucrose
Purity	Immunogen affinity purified
Purification notes	The antibody has been peptide-affinity purified.
Clonality	Polyclonal
Isotype	IgG

Applications

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.
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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"

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