


Product datasheet

Anti-ADAMTS4 antibody ab219548

3 Images

Overview

Product name	Anti-ADAMTS4 antibody
Description	Rabbit polyclonal to ADAMTS4
Host species	Rabbit
Specificity	BLAST analysis of the peptide immunogen showed no homology with other Human proteins.
Tested applications	Suitable for: IHC-P
Species reactivity	<p>Reacts with: Human</p> <p>Predicted to work with: Mouse, Horse, Dog, Pig, Orangutan, Bat </p>
Immunogen	<p>Synthetic peptide within Human ADAMTS4. The exact sequence is proprietary. 16 amino acid peptide from the Metalloprotease domain.</p> <p>Database link: O75173</p>
Positive control	IHC-P; Human skin melanoma, Human cartilage and Human kidney tissue.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>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.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>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.</p> <p>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.</p> <p>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.</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.099% Sodium azide Constituent: 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab219548** in the following tested applications.

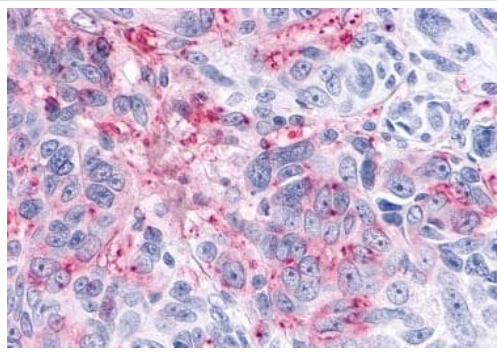
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 4 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

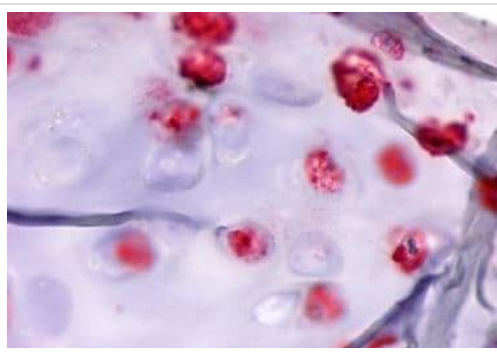
Function	Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover. May play an important role in the destruction of aggrecan in arthritic diseases. Could also be a critical factor in the exacerbation of neurodegeneration in Alzheimer disease. Cleaves aggrecan at the '392-Glu-Ala-393' site.
Tissue specificity	Expressed in brain, lung and heart. Expressed at very low level in placenta and skeletal muscles.
Sequence similarities	Contains 1 disintegrin domain. Contains 1 peptidase M12B domain. Contains 1 TSP type-1 domain.
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.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images



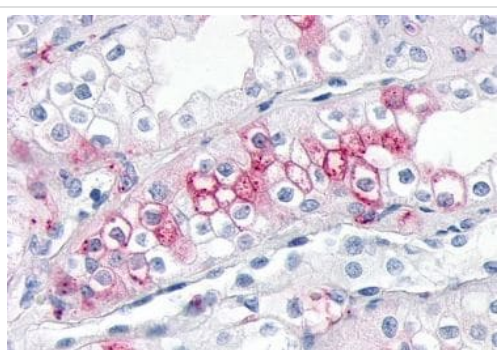
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADAMTS4 antibody (ab219548)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human skin melanoma tissue labeling ADAMTS4 with ab219548 at 4 µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADAMTS4 antibody (ab219548)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human cartilage tissue labeling ADAMTS4 with ab219548 at 4 µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADAMTS4 antibody (ab219548)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human kidney tissue labeling ADAMTS4 with ab219548 at 4 µg/ml.

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

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