

## Product datasheet

# Anti-Elastin antibody ab217356

3 References 7 Images

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-Elastin antibody   |
| <b>Description</b>         | Rabbit polyclonal to Elastin  |
| <b>Host species</b>        | Rabbit  |
| <b>Tested applications</b> | <b>Suitable for:</b> WB, IHC-P, Flow Cyt  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse, Rat, Human   |
| <b>Immunogen</b>           | <p>Synthetic peptide within Human Elastin aa 750-786 conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary.</p> <p>Sequence:</p> <p>GAGQFPLGGVA ARPGFGLSPI FPGGACLGKA CGRKRK</p> <p>Database link: <a href="#">P15502-3</a></p> <p style="text-align: right;">  <a href="#">Run BLAST with</a>                 <a href="#">Run BLAST with</a> </p>  |
| <b>Positive control</b>    | IHC-P: Human artery and glioma tissues; rat intervertebral disk tissue; mouse heart tissues. WB: Mouse lung and intestine lysates, rat lung lysates. FCM: A549 cells.   |
| <b>General notes</b>       | <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 &amp; 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 &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; 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&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>       | Preservative: 0.09% Sodium azide<br>Constituents: 1% BSA, 50% Glycerol  |
| <b>Purity</b>               | Protein A purified  |
| <b>Clonality</b>            | Polyclonal  |
| <b>Isotype</b>              | IgG   |

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab217356** 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          |           | 1/100 - 1/1000. Predicted molecular weight: 68 kDa. |
| IHC-P       |           | 1/100 - 1/500.                                      |
| Flow Cyt    |           | 1/50.   |

## Target

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|                               |   |
|-------------------------------|---|
| <b>Function</b>               | Major structural protein of tissues such as aorta and nuchal ligament, which must expand rapidly and recover completely. Molecular determinant of the late arterial morphogenesis, stabilizing arterial structure by regulating proliferation and organization of vascular smooth muscle.   |
| <b>Tissue specificity</b>     | Expressed within the outer myometrial smooth muscle and throughout the arteriolar tree of uterus (at protein level). Also expressed in the large arteries, lung and skin.   |
| <b>Involvement in disease</b> | <p>Defects in ELN are a cause of autosomal dominant cutis laxa (ADCL) [MIM:123700]. Cutis laxa is a rare connective tissue disorder characterized by loose, hyperextensible skin with decreased resilience and elasticity leading to a premature aged appearance. The skin changes are often accompanied by extracutaneous manifestations, including pulmonary emphysema, bladder diverticula, pulmonary artery stenosis and pyloric stenosis.</p> <p>Defects in ELN are the cause of supravalvular aortic stenosis (SVAS) [MIM:185500]. SVAS is a congenital narrowing of the ascending aorta which can occur sporadically, as an autosomal dominant condition, or as one component of Williams-Beuren syndrome.</p> <p>Note=ELN is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region. Haploinsufficiency of ELN may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in the disease.</p> |

## Sequence similarities

Belongs to the elastin family.

## Post-translational modifications

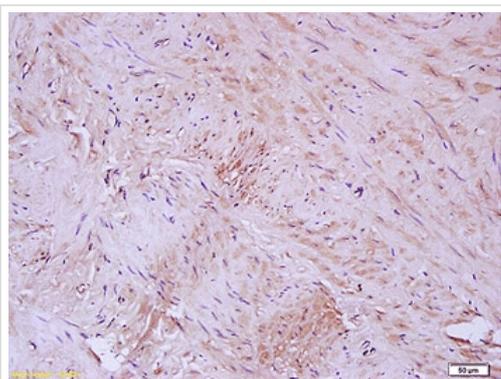
Elastin is formed through the cross-linking of its soluble precursor tropoelastin. Cross-linking is initiated through the action of lysyl oxidase on exposed lysines to form allysine. Subsequent spontaneous condensation reactions with other allysine or unmodified lysine residues result in various bi-, tri-, and tetrafunctional cross-links. The most abundant cross-links in mature elastin fibers are lysinonorleucine, allysine aldol, desmosine, and isodesmosine.

Hydroxylation on proline residues within the sequence motif, GXPG, is most likely 4-hydroxy as this fits the requirement for 4-hydroxylation in vertebrates.

## Cellular localization

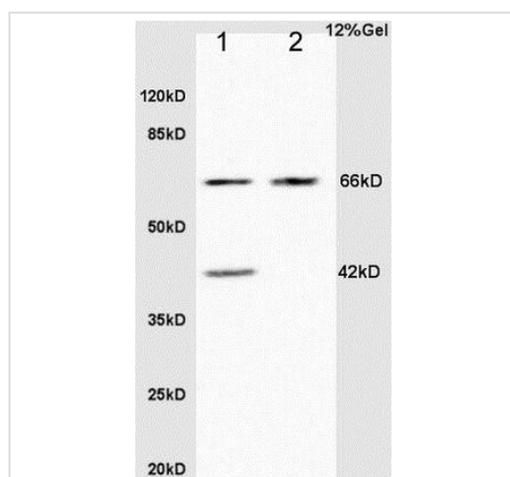
Secreted > extracellular space > extracellular matrix. Extracellular matrix of elastic fibers.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Elastin antibody (ab217356)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human artery tissue labeling Elastin with ab217356 at 1/100 dilution followed by conjugation to the secondary antibody and DAB staining.



Western blot - Anti-Elastin antibody (ab217356)

**All lanes** : Anti-Elastin antibody (ab217356) at 1/200 dilution

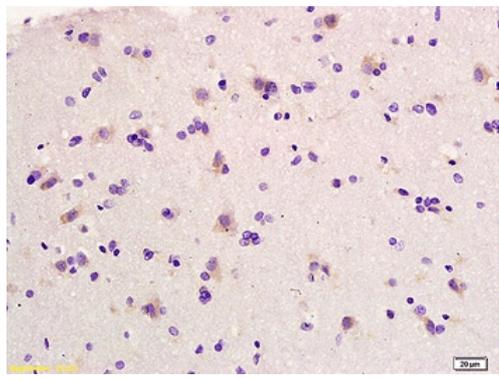
**Lane 1** : mouse intestine lysate

**Lane 2** : rat lung lysate

### Secondary

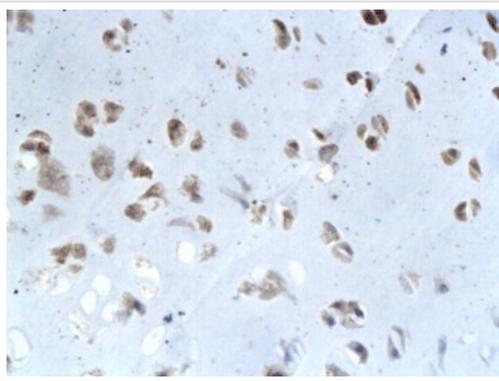
**All lanes** : Goat Anti-Rabbit IgG Antibody (H+L), HRP at 1/3000 dilution

**Predicted band size:** 68 kDa



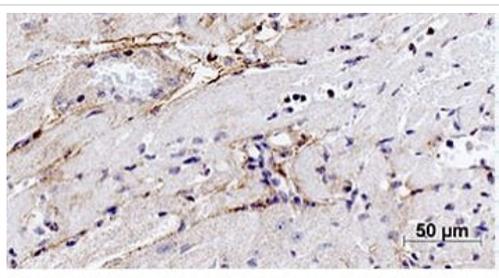
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Elastin antibody (ab217356)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human glioma tissue labeling Elastin with ab217356 at 1/100 dilution followed by conjugation to the secondary antibody and DAB staining.



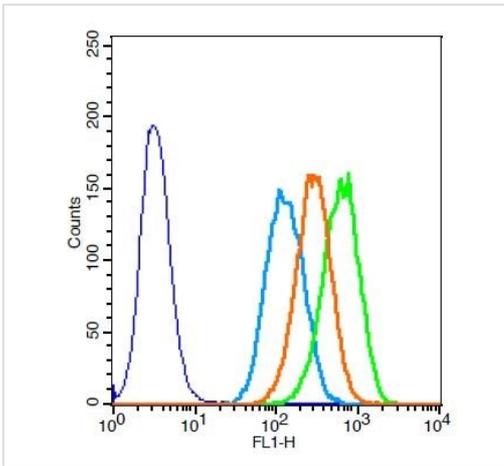
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Elastin antibody (ab217356)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded rat intervertebral disk tissue labeling Elastin with ab217356 at 1/100 dilution followed by conjugation to the secondary antibody and DAB staining.



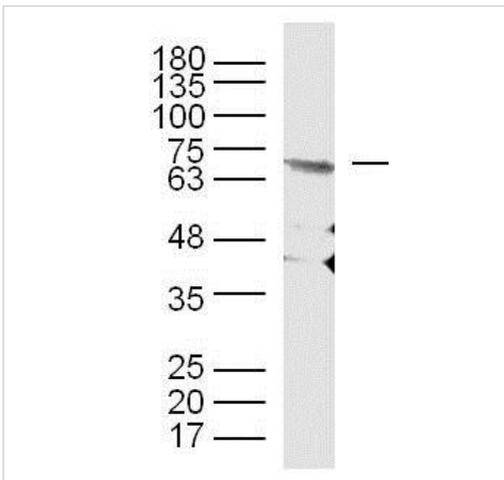
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Elastin antibody (ab217356)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded mouse heart tissue labeling Elastin with ab217356 at 1/1000 dilution followed by conjugation to the secondary antibody.



Flow Cytometry - Anti-Elastin antibody (ab217356)

Flow cytometric analysis of A549 cells labeling Elastin with ab217356 at 1/50 dilution for 40 minutes followed by incubation with Goat Anti-Rabbit IgG FITC conjugated secondary at 1/100 (green) for 40 minutes compared to control cells (blue), secondary only (light blue) and isotype control (orange).



Western blot - Anti-Elastin antibody (ab217356)

Anti-Elastin antibody (ab217356) at 1/300 dilution + mouse lung lysate

**Secondary**

conjugated secondary at 1/10000 dilution

**Predicted band size:** 68 kDa

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