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# Elastin Rabbit pAb

Elastin Rabbit pAb
Catalog # AP52134

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF |
| **Primary Accession** | P15502 |
| **Reactivity** | Rat, Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 68398 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human Elastin |
| **Epitope Specificity** | 681-786/786 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SUBCELLULAR LOCATION** | Secreted, extracellular space, extracellular matrix. Note=Extracellular matrix of elastic fibers. |
| **DISEASE** | Defects in ELN are the cause of cutis laxa, autosomal dominant, type 1 (ADCL1) . A connective tissue disorder characterized by loose, hyperextensible skin with decreased resilience and elasticity leading to a premature aged appearance. Face, hands, feet, joints, and torso may be differentially affected. Additional variable clinical features are gastrointestinal diverticula, hernia, and genital prolapse. Rare manifestations are pulmonary artery stenosis, aortic aneurysm, bronchiectasis, and emphysema. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | This gene encodes a protein that is one of the two components of elastic fibers. Elastic fibers comprise part of the extracellular matrix and confer elasticity to organs and tissues including the heart, skin, lungs, ligaments, and blood vessels. The encoded protein is rich in hydrophobic amino acids such as glycine and proline, which form mobile hydrophobic regions bounded by crosslinks between lysine residues. Degradation products of the encoded protein, known as elastin-derived peptides or elastokines, bind the elastin receptor complex and other receptors and stimulate migration and proliferation of monocytes and skin fibroblasts. Elastokines can also contribute to cancer progression. Deletions and mutations in this gene are associated with supravalvular aortic stenosis (SVAS) and autosomal dominant cutis laxa. [provided by RefSeq, Aug 2017]. |

## Additional Information

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| **Gene ID** | 2006 |
| **Other Names** | Elastin, Tropoelastin, ELN |

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| **Dilution** | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | ELN |
| **Function** | 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 (By similarity). |
| **Cellular Location** | Secreted, extracellular space, extracellular matrix. Note=Extracellular matrix of elastic fibers. |
| **Tissue Location** | 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 |

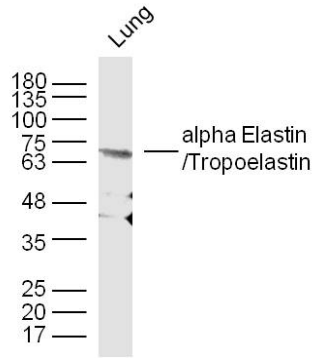
## Background

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## References

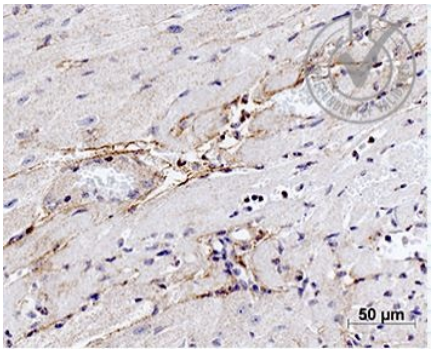

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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## Images




Sample: Lung (Mouse) Lysate at 30 ug
Primary: Anti- alpha Elastin/Tropoelastin (AP52134) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/10000 dilution
Predicted band size: 70 kD
Observed band size: 68 kD

Images provided the Independent Validation Program (badge number 28751): Formalin-fixed and paraffin embedded mouse heart labeled with Rabbit Anti-alpha




Elastin Polyclonal Antibody (AP52134) at 1:1000 4℃ temperature overnight 4℃followed by conjugation to secondary antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.