

**bs-1756R****[ Primary Antibody ]****Elastin Rabbit pAb****Bioss**  
**ANTIBODIES**

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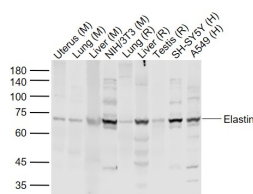
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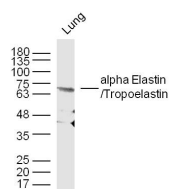
400-901-9800

**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 2006**SWISS:** P15502**Target:** Elastin**Immunogen:** KLH conjugated synthetic peptide derived from human Elastin: 681-786/786.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

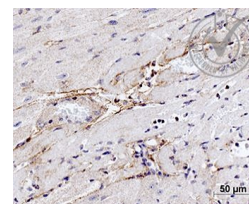
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** 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].**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1µg /test)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 68 kDa**Subcellular Location:** Secreted ,Extracellular matrix**VALIDATION IMAGES**

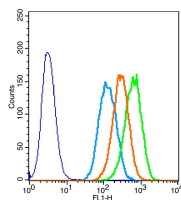
Sample: Lane 1: Uterus (Mouse) Lysate at 40 ug  
 Lane 2: Lung (Mouse) Lysate at 40 ug Lane 3:  
 Liver (Mouse) Lysate at 40 ug Lane 4: NIH/3T3  
 (Mouse) Cell Lysate at 30 ug Lane 5: Lung (Rat)  
 Lysate at 40 ug Lane 6: Liver (Rat) Lysate at 40 ug  
 Lane 7: Testis (Rat) Lysate at 40 ug Lane 8: SH-  
 SY5Y (Human) Cell Lysate at 30 ug Lane 9: A549  
 (Human) Cell Lysate at 30 ug Primary: Anti-  
 Elastin (bs-1756R) at 1/1000 dilution Secondary:  
 IRDye800CW Goat Anti-Rabbit IgG at 1/20000  
 dilution Predicted band size: 66 kD Observed  
 band size: 68 kD



Sample: Lung (Mouse) Lysate at 30 ug Primary:  
 Anti- alpha Elastin/Tropoelastin (bs-1756R) 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 (bs-1756R) at 1:1000 4°C temperature  
 overnight 4°C followed by conjugation to  
 secondary antibody.



**Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

The figure annotation: The blue histogram is unstained cells. The green histogram is cells stained with Rabbit Anti- $\alpha$  Elastin/Tropoelastin antibody (bs-1756R) plus secondary antibody. Controls: Positive control: A549 cells. Isotype control: Cell lines treated with rabbit IgG (bs-0295P) instead of the primary antibody to confirm that primary antibody binding is specific. Secondary only control: Both cell lines treated with Goat Anti-rabbit IgG/FITC antibody (bs-0295G-FITC) to confirm no background signal produced from secondary antibody alone. 1  $\mu$ g in 100  $\mu$ L 1 X PBS containing 0.5% BSA.

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## — SELECTED CITATIONS —

- **[IF=38.1]** Shpitzen, Shoshi. et al. Characterization of LTBP2 mutation causing mitral valve prolapse. European heart journal open. 2025 Jan 3;5(1):oeae106. IF ;Mouse. 39882270
- **[IF=9.5]** Kapish Gupta. et al. The biliary atresia susceptibility gene, EFEMP1, regulates extrahepatic bile duct elastic fiber formation and mechanics. JHEP Reports. 2024 Sep;:101215 IF ;Mouse. 10.1016/j.jhepr.2024.101215
- **[IF=6.87]** Konii, Hanae, et al. "Stimulatory Effects of Cardiotrophin 1 on Atherosclerosis." Hypertension?(2013): HYPERTENSIONAHA-113 WB ;="Human". 24041953
- **[IF=6.17]** Tong Xu. et al. Lithium chloride represses abdominal aortic aneurysm via regulating GSK3 $\beta$ /SIRT1/NF- $\kappa$ B signaling pathway. Free Radical Bio Med. 2021 Apr;166:1 WB ;Rat. 33588051
- **[IF=3.55]** Guo, Hong-Feng, et al. "Piezoelectric PU/PVDF electrospun scaffolds for wound healing applications." Colloids and Surfaces B: Biointerfaces (2012). WB ;="Mouse". 22503631