bs-1756R

[Primary Antibody]

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Elastin Rabbit pAb

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)

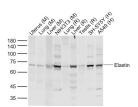
Reactivity: Human, Mouse, Rat

Predicted 68 kDa MW.:

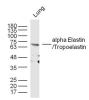
Subcellular Secreted ,Extracellular

Location: 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: IRDve800CW 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°Cfollowed by conjugation to secondary antibody.

— 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 GSK3β/SIRT1/NF-κB 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