



## Product Information Sheet

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### Monoclonal Anti-Elastin - conjugated to Magnetic Beads

**Catalogue No.** MA1038-M

**Immunogen**

Bovine  $\alpha$ -elastin

**Lot No.** 08A12

**Purification**

Purified by the goat anti-mouse IgG affinity chromatography.

**Clone:** IL-4

**Ig type:** mouse IgG1

**Formulation**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Size:** 200 $\mu$ l

**Specificity**

Human, dog, guinea pig.

No cross reactivity with other proteins.

**Storage**

Store at 4°C for frequent use.

**Recommended application**

*Immunohistochemistry(P)*

**Description**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

### BACKGROUND

Elastin is a major structural protein of tissues such as aorta, which must expand rapidly and recover completely. Elastin chains are cross-linked together into an extensible 3D network. It is a molecular determinant of late arterial morphogenesis, stabilizing arterial structure by regulating proliferation and organization of vascular smooth muscle. Defects in elastin are a cause of autosomal dominant cutis laxa.

### REFERENCE

1. Rosenbloom, J. : Personal Communication. Philadelphia, Pa., 4/1984
2. Urban, Z.; Riaz, S.; Seidl, T. L.; Katahira, J.; Smoot, L. B.; Chitayat, D.; Boyd, C. D.; Hinek, A. : Connection between elastin haploinsufficiency and increased cell proliferation in patients with supravalvular aortic stenosis and Williams-Beuren syndrome. *Am. J. Hum. Genet.* 71: 30-44, 2002.
3. Uitto, J.; Christiano, A. M.; Kahari, V.-M.; Bashir, M. M.; Rosenbloom, J. : Molecular biology and pathology of human elastin. *Biochem. Soc. Trans.* 19: 824-829, 1991.

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