

Anti-Elastin Antibody (Monoclonal, BA-4)

Catalog # ABO10429

Product Information

Application	IHC-P
Primary Accession	P15502
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for Elastin, elastin (ELN) detection. Tested with IHC-P in Human; bovine. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Gene ID	2006
Other Names	Elastin, Tropoelastin, ELN
Calculated MW	68398
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.25-0.5 µg/ml, Bovine, human, By Heat
Subcellular Localization	Secreted, extracellular space, extracellular matrix . Extracellular matrix of elastic fibers. .
Tissue Specificity	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. .
Source	Eukaryota
Protein Name	Elastin
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
Clone Names	BA-4
Immunogen	Bovine alpha-elastin.
Purification	Ascites

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the elastin family.

Protein Information

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

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.

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