BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-Elastin/ELN Antibody

Catalog Number: A01300-1

About ELN

Elastic fibers are an abundant and integral part of many extracellular matrices, in which they provide the elastic properties to tissues such as arterial, lung, and skin. Elastic fibers are consisting of an elastin core surrounded by a mantle of fibrillin-rich microfibrils (PMID: 12082143). Elastin is an extremely durable, insoluble biopolymer formed through the lysine-mediated crosslinking of its soluble precursor tropoelastin, which is an approximately 60-70 kDa protein (PMID: 15837523). Deletions and mutations in the elastin gene (ELN) are associated with supravalvular aortic stenosis (SVAS) and autosomal dominant cutis laxa.

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Overview

Product Name	Anti-Elastin/ELN Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Elastin/ELN Antibody catalog # A01300-1. Tested in WB, IHC, IP, ELISA applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IP, IHC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg stabilizing protein and 50% glycerol *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt□-20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P15502

Technical Details

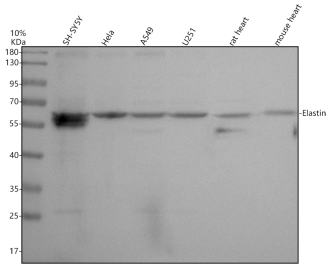
Immunogen	E.coli-derived human Elastin/ELN recombinant protein (Position: V309-K656).

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Form	Liquid
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-400 ELISA, 1:100-1000

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Anti-Elastin/ELN Antibody (A01300-1) Images



Western blot analysis of Elastin using anti-Elastin antibody (A01300-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human SH-SY5Y whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human U251 whole cell lysates, Lane 5: rat heart tissue lysates, Lane 6: mouse heart tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Elastin antigen affinity purified polyclonal antibody (A01300-1) at 1: 1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for Elastin at approximately 60 kDa. The expected band size for Elastin is at 68 kDa.

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For Research Use Only. Not for use in diagnostic procedures.