Elastin (ELN) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Elastin (ELN), Polyclonal Antibody
Full Product Name	FITC-linked Antibody to Elastin (ELN)
Product Gene Name	anti-ELN antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Rat, Pig
Form/Format	Supplied as solution form in PBS, pH7.4, containing 0.02% NaN3,50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	500ug/ml (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against ELN conjugated to fitc. It has been selected for its ability to recognize ELN in immunohistochemical staining andwestern blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C to -80 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Matching Pairs	Unconjugated Antibody: ELN (MBS2007053) FITC Conjugated Antibody: ELN (MBS2017512)
Matching Pairs	FITC Conjugated Antibody: ELN (MBS2017512) Immunogen: ELN (MBS2012279)
Molecular Weight	68,469 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (73442119..73484237). Location: 7q11.23
OMIM	123700
3D Structure	ModBase 3D Structure for P15502
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Product Categories/Family for anti-ELN antibody	FITC Antibody
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-ELN antibody	Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-ELN antibody	Western blotting: 1:100-400 Immunocytochemistry in formalin fixed cells: 1:100-500 Immunohistochemistry in formalin fixed frozen section: 1:100-500 Immunohistochemistry in paraffin section: 1:50-200 Enzyme-linked Immunosorbent Assay: 1:100-200
Related Product Information for anti-ELN antibody	MBS2017512 is an antibody targeting ELN. Also known as FITC-linked Antibody to Elastin (ELN). Reactive in Human, Rat, Pig. Host: Rabbit.

Other Notes	Small volumes of anti-ELN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ELN. It may not necessarily be applicable to this product.

NCBI GI #	525313599
NCBI GeneID	2006
NCBI Accession #	NP_001265868.1
UniProt Primary Accession #	P15502
UniProt Secondary Accession #	O15336; O15337; Q14233; Q14234; Q14235; Q14238; Q6P0L4; Q6ZWJ6; Q75MU5; Q7Z316; B3KTS6
UniProt Related Accession #	P15502
GenBank Nucleotide #	NM_001278939.1
NCBI Official Full Name	elastin isoform m
NCBI Official Synonym Full Names	elastin
NCBI Official Symbol	ELN
NCBI Official Synonym Symbols	WS; WBS; SVAS
UniProt Protein Name	Elastin
UniProt Synonym Protein Names	Tropoelastin
Protein Family	Elastin
UniProt Gene Name	ELN
UniProt Entry Name	ELN_HUMAN
NCBI Protein Information	elastin; tropoelastin
NCBI Summary for ELN	This gene encodes a protein that is one of the two components of elastic fibers. 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. Deletions and mutations in this gene are associated with supravalvular aortic stenosis (SVAS) and autosomal dominant cutis laxa. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for ELN	elastin: 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. Defects in ELN are the cause of cutis laxa, autosomal dominant, type 1 (ADCL1). A connective tissue disorder characterized by loose, hyperextensible skin with decreased resilience and elasticity leading to a premature aged appearance. Face, hands, feet, joints, and torso may be differentially affected. Additional variable clinical features are gastrointestinal diverticula, hernia, and genital prolapse. Rare manifestations are pulmonary artery stenosis, aortic aneurysm, bronchiectasis, and emphysema. Defects in ELN are the cause of supravalvular aortic stenosis (SVAS). SVAS is a congenital narrowing of the ascending aorta which can occur sporadically, as an autosomal dominant condition, or as one component of Williams-Beuren syndrome. ELN is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region. Haploinsufficiency of ELN may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in the disease. Belongs to the elastin family. 13 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Extracellular matrix; Secreted Chromosomal Location of Human Ortholog: 7q11.23 Cellular Component: proteinaceous extracellular matrix; extracellular region Molecular Function: protein binding; extracellular matrix structural constituent Biological Process: extracellular matrix disassembly; cell proliferation; organ morphogenesis; extracellular matrix organization and biogenesis; blood circulation; respiratory gaseous exchange Disease: Cutis Laxa, Autosomal Dominant 1; Williams-beuren Syndrome; Supravalvular Aortic Stenosis
Research Articles on ELN	**1.** Elastin binding protein and FKBP65 modulate the kinetics of self-assembly of tropoelastin in an in vitro system.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-pig-rat-antibody/elastin-eln/2017512