Elastin (ELN) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Elastin (ELN), Monoclonal Antibody
Full Product Name	Cy3-Linked Monoclonal Antibody to Elastin (ELN)
Product Gene Name	anti-ELN antibody
Product Synonym Names	Elastin; WBS, WS, SVAS; Tropoelastin; Supravalular Aortic Stenosis; Williams-Beuren Syndrome
Clonality	Monoclonal
Clone Number	D5
Host	Mouse
Species Reactivity	Human, Rat
Form/Format	Liquid. PBS, pH7.4, containing 0.02% NaN3, 50% glycerol.
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	>=1mg/mL (Please refer to the vial label for the specific concentration.) (lot specific)
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, -20 degree C for 12 months Stable for 12 months if correctly stored.
Matching Pairs	Antibody: ELN Clone #D5 (MBS2146590) Immunogen: ELN (MBS2012279)
Matching Pairs	Unconjugated Antibody: ELN Clone #D5 (MBS2152904) Cy3 Conjugated Antibody: ELN Clone #D5 (MBS2146590)
Molecular Weight	68,469 Da
Immunogen Sequence Positions	Gly392~Ala645
Chromosome Location	Chromosome: 7; NC_000007.13 (73442427..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.
Conjugation	Cy3
Product Categories/Family for anti-ELN antibody	Monoclonal Antibodies (Primary Abs); Primary, Cy3-conjugated; Metabolic pathway
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-ELN antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-ELN antibody	WB: 0.2-2ug/mL, 1: 500-5000 IHC: 5-20ug/mL, 1: 50-200 ICC: 5-20ug/mL, 1: 50-200
Related Product Information for anti-ELN antibody	MBS2146590 is an antibody targeting ELN. Also known as Cy3-Linked Monoclonal Antibody to Elastin (ELN). Reactive in Human, Rat. Host: Mouse.

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: Extracellular matrix; Secreted, signal peptide; 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: cell proliferation; extracellular matrix disassembly; extracellular matrix organization and biogenesis; organ morphogenesis; blood circulation; respiratory gaseous exchange Disease: Cutis Laxa, Autosomal Dominant 1; Williams-beuren Syndrome; Supravalvular Aortic Stenosis
Research Articles on ELN	**1.** Report increased elastin/collagen III ratio in aortic wall of myocardial infarction patients.
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