

36-2208: Anti-Elastin (ELN) (Marker of Arterial Stiffness and Atherosclerosis) Monoclonal Antibody(Clone: ELN/1981)

Clonality :	Monoclonal
Clone Name :	ELN/1981
Application :	ELISA,IHC
Reactivity :	Human
Gene :	ELN
Gene ID :	2006
Uniprot ID :	P15502
Alternative Name :	Elastin; ELN; SVAS; Tropoelastin; WBS; WS
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant full-length human Elastin protein

Description

Elastin is a polymeric protein and is the main component of the extracellular matrix of arteries. It is synthesized and secreted as a soluble, single-chain protein (tropoelastin), which undergoes a number of post-translational modifications prior to its organization into an elastic fiber in the extracellular space. Elastin performs a regulatory function during arterial development by controlling proliferation of smooth muscle and stabilizing arterial structure. It imparts elasticity to the connective tissue. During aging, the elasticity of connective tissue is reduced because of the cross-linking of collagenous fibers with elastin. The abnormal accumulation of elastic tissue in blood vessels is found in atherosclerosis and hypertension.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

ELISA (For coating, order Ab without BSA); Immunohistochemistry (Formalin-fixed) (1-2µg/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

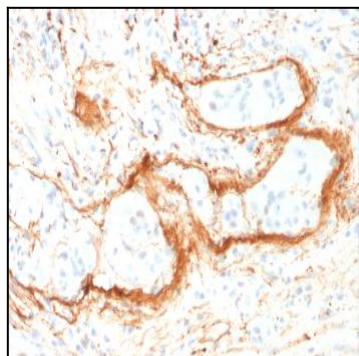


Fig. 1: Formalin-fixed, paraffin-embedded human Small Intestine stained with Monospecific Mouse Monoclonal Antibody (ELN/1981) to Elastin.

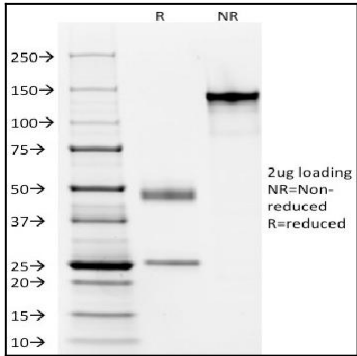


Fig. 2: SDS-PAGE Analysis Purified Elastin Mouse Monoclonal Antibody (ELN/1981). Confirmation of Integrity and Purity of Antibody.

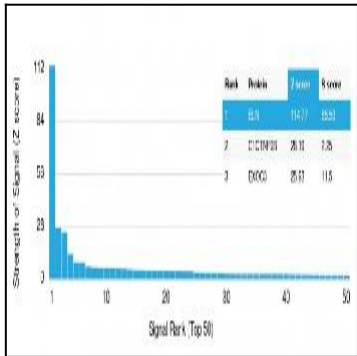


Fig. 3: Analysis of Protein Array containing >19,000 full-length human proteins using Elastin (ELN) Mouse Monoclonal Antibody (ELN/1981) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.