Elastin (ELN) (Marker of Arterial Stiffness and Atherosclerosis) Antibody

Mouse Monoclonal Antibody [Clone ELN/1981]

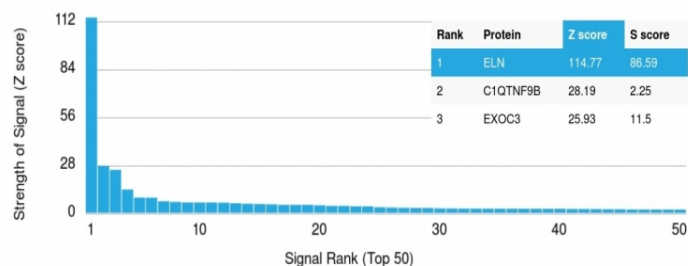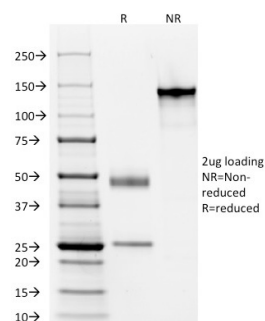| Catalog No	Format	Size
2006-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2006-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2006-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	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

Product Details

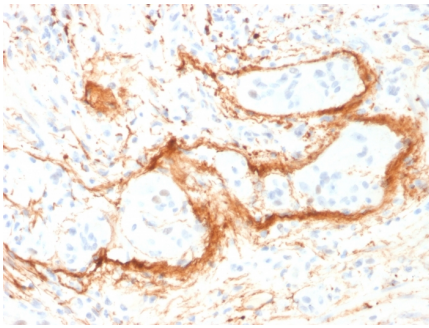|	
Clone	ELN/1981
Gene Name	ELN
Immunogen	Recombinant full-length human Elastin protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	70kDa
Cellular Localization	Extracellular matrix, Extracellular space, Secreted
Species Reactivity	Human
Positive Control	A549 or U-2197 cells. Liver, Kidney, Lung or Intestine.

Optimal dilution for a specific application should be determined.

Product Images for Elastin (ELN) (Marker of Arterial Stiffness and Atherosclerosis) Antibody

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

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 HuProtTM 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 HuProtTM 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.

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

Specificity & Comments

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 elasticityto 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.

Supplied As

200ug/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 and Stability

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. No MSDS required.

Research Areas

Cancer, Cardiovascular

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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