

Monoclonal Antibody to Fibrillin 1 / FBN1 - Purified

Alternate names:	FBN, MASS, MFS1, OCTD, SGS, WMS
Catalog No.:	AM00617PU-N
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Background:	Fibrillin-1 is an extracellular acidic protein with a high cysteine content and an extended thread-like shape with mosaic composition of different types of extracellular modules. Most of the fibrillin molecule is contributed by 47 epidermal growth factor-like (EGF-like) repeats; 43 of them have a consensus sequence for calcium binding (cb). Other modules including 8-cysteine motifs (seven), hybrid motifs (two), and unique domains (three) are interspersed throughout the molecule[3-7]. fibrillin-1 contains a proline-rich region close to the N-terminus that is replaced by a glycine-rich region in fibrillin-2. The fibrillins are found throughout the connective tissue as integral components of extended fibrils.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	12A5.18
Immunogen:	Microfibrils from zonular apparatus of bovine eye
Format:	State: Liquid Ig fraction Purification: Protein G chromatography Buffer System: 10 mM PBS, pH 7.4, with 0.2 % BSA and 0.09 % sodium azide
Applications:	Electron Microscopy. Immunofluorescence. Western Blotting (2): 1-2 µg/ml for 2 hrs at RT. Immunohistology (Formalin/paraffin): 2-4 µg/ml for 30 min at RT; no special pretreatment is required for the immunohistochemical staining of formalin/paraffin tissues. Positive Control: Normal skin fibroblasts. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects Fibrillin 1. It decorates elastic framework and more specifically the oxytalan network close to the epidermis. Cultures of normal human skin fibroblasts show discrete staining of extracellular fibrils. It shows no reaction with fibrillin 2. Species: Human and Cow. Other species not tested.
Add. Information:	Cellular Localization: Extracellular microfibrils

Storage: Store the antibody at 2 - 8 °C up to one month or in aliquots at -20 °C for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: 1. Maier A; et al. Science, 1994, 35(7):3103-10.
2. Wright DW; et al. Matrix Biology, 1994, 14(1):41-9.

Pictures: Formalin-fixed, paraffin-embedded human skin stained with Fibrillin Ab-2 (AM00617PU-N) using peroxidase-conjugate and AEC chromogen. Note staining of extracellular fibrils in dermis.

