

Fibulin 5 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1062a

Product Information

Application WB, IHC, E
Primary Accession Q9UBX5
Reactivity Human
Host Mouse
Clonality Monoclonal
Clone Names 3F10A5; 3F8A12

Isotype IgG1 **Calculated MW** 50180

Description Fibulin 5(FBLN5), with 448-amino acid protein (about 50kDa), is a recently

discovered multifunctional extracellular matrix protein that mediates endothelial cell adhesion through integrin ligation, regulates cell growth and motility in a context-specific manner, and prevents elastinopathy in vivo. Fibulin-5 is abundantly expressed in great vessels and cardiac valves during embryogenesis, and in many adult tissues including the aorta, lung, uterus and skin, all of which contain abundant elastic fibres. Decreased fibulin-5 may contribute to the pathogenesis of aortic dissection by impairing elastic fiber assembly. Fibulin-5 is also a good marker of skin ageing and that the earlier loss of fibulin-5 may involve age-dependent changes in other elastic fibre

components.

Immunogen Purified recombinant fragment of Fibulin 5 expressed in E. Coli.

Formulation Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID 10516

Other Names Fibulin-5, FIBL-5, Developmental arteries and neural crest EGF-like protein,

Dance, Urine p50 protein, UP50, FBLN5, DANCE

Dilution WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~N/A

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions Fibulin 5 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name FBLN5

Synonyms DANCE

Function Essential for elastic fiber formation, is involved in the assembly of

continuous elastin (ELN) polymer and promotes the interaction of microfibrils and ELN (PubMed:18185537). Stabilizes and organizes elastic fibers in the skin, lung and vasculature (By similarity). Promotes adhesion of endothelial cells through interaction of integrins and the RGD motif. Vascular ligand for integrin receptors which may play a role in vascular development and remodeling (PubMed:10428823). May act as an adapter that mediates the

interaction between FBN1 and ELN (PubMed:17255108).

Cellular Location Secreted. Secreted, extracellular space, extracellular matrix. Note=co-localizes

with ELN in elastic fibers.

Tissue Location Expressed in skin fibroblasts (at protein level) (PubMed:17035250). Expressed

predominantly in heart, ovary, and colon but also in kidney, pancreas, testis,

lung and placenta. Not detectable in brain, liver, thymus, prostate, or

peripheral blood leukocytes (PubMed:10428823).

References

1. Wen Wang, Scott A. LeMaire, Li Chen. Surgery. 2005 Aug;138(2):352-9 2. K. Kadoya, T. Sasaki, G. Kostka. Br J Dermatol. 2005 Sep;153(3):607-123. 3. Michael J. Lee, Nakshatra K. Roy, Jon E. Mogford. J Am Coll Surg. 2004 Sep;199(3):403-10.

Images

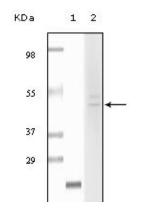


Figure 1: Western blot analysis using Fibulin5 mouse mAb against truncated fibulin5 recombinant protein (1) and Hela cell lysate (2).

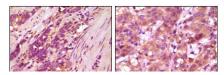


Figure 2: Immunohistochemical analysis of paraffin-embedded human stomach carcinoma (left) and breast carcinoma (right), showing cytoplasmic localization using fibulin5 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.