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FBLN5 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1164a

Product Information

Application	WB, IHC, E
Primary Accession	Q9UBX5
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1G6A4
Isotype	IgG1
Calculated MW	50180
Description	FBLN5: fibulin 5. The protein is a secreted, extracellular matrix protein containing an Arg-Gly-Asp (RGD) motif and calcium-binding EGF-like domains. It promotes adhesion of endothelial cells through interaction of integrins and the RGD motif. It is prominently expressed in developing arteries but less so in adult vessels. However, its expression is reinduced in balloon-injured vessels and atherosclerotic lesions, notably in intimal vascular smooth muscle cells and endothelial cells. Therefore, the protein encoded by this gene may play a role in vascular development and remodeling.
Immunogen	Purified recombinant fragment of FBLN5 (aa242-448) 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	FBLN5 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. Am J Hum Genet. 2003 Apr;72(4):998-1004. 2. Genome Res. 2003 Oct;13(10):2265-70 3. N Engl J Med. 2004 Jul 22;351(4):346-53. 4. Surgery. 2005 Aug;138(2):352-9.

Images

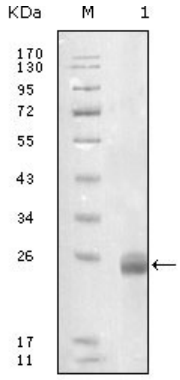


Figure 1: Western blot analysis using FBLN5 mouse mAb against truncated FBLN5-His recombinant protein.

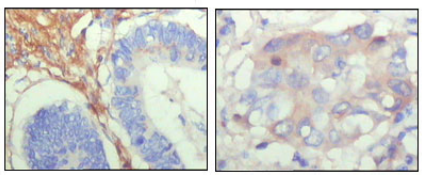


Figure 2: Immunohistochemical analysis of paraffin-embedded human colon cancer (left) and breast cancer (right) showing cytoplasmic localization with DAB staining using FBLN5 mouse mAb.

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