

**FBLN5 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1164a**

**Specification**

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**FBLN5 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">O9UBX5</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>

**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. <br />

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**FBLN5 Antibody - 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

**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.

**FBLN5 Antibody - 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:<a href="http://www.uniprot.org/citations/18185537" target="\_blank">18185537</a>). 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:<a href="http://www.uniprot.org/citations/10428823" target="\_blank">10428823</a>). May act as an adapter that mediates the interaction between FBN1 and ELN (PubMed:<a href="http://www.uniprot.org/citations/17255108" target="\_blank">17255108</a>).

**Cellular Location**

Secreted. Secreted, extracellular space, extracellular matrix. Note=co-localizes with ELN in elastic fibers.

**Tissue Location**

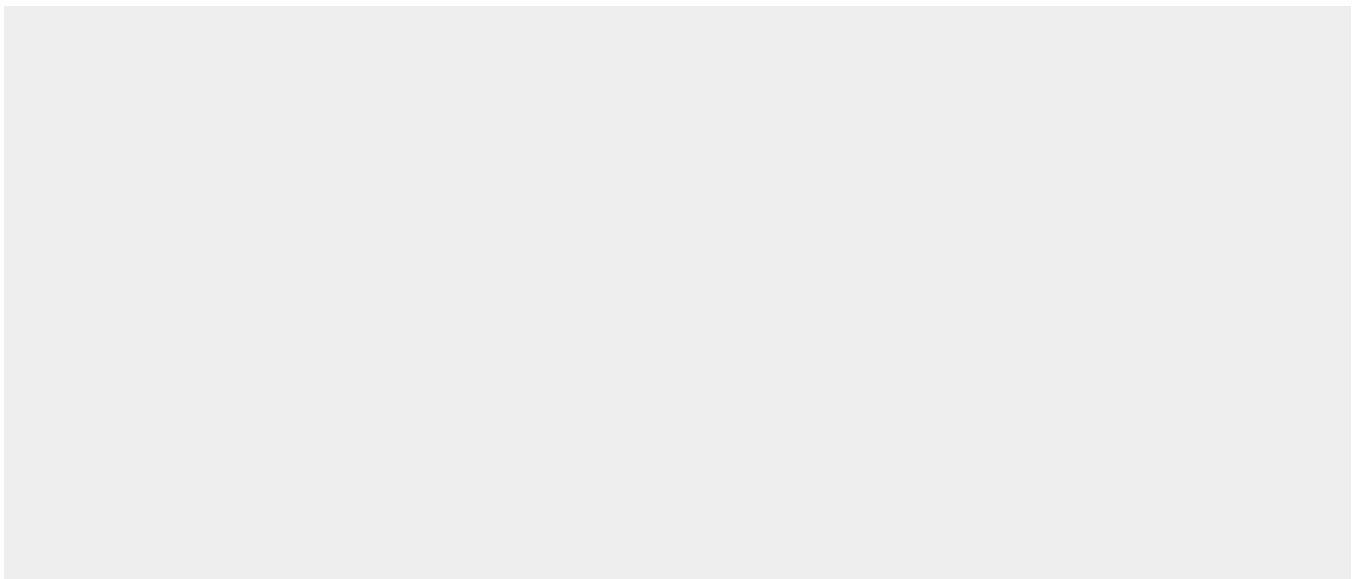
Expressed in skin fibroblasts (at protein level) (PubMed:17035250). Expressed predominantly in heart, ovary, and colon but also in kidney, pancreas, testis, lung and placenta. Not detectable in brain, liver, thymus, prostate, or peripheral blood leukocytes (PubMed:10428823).

**FBLN5 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**FBLN5 Antibody - Images**



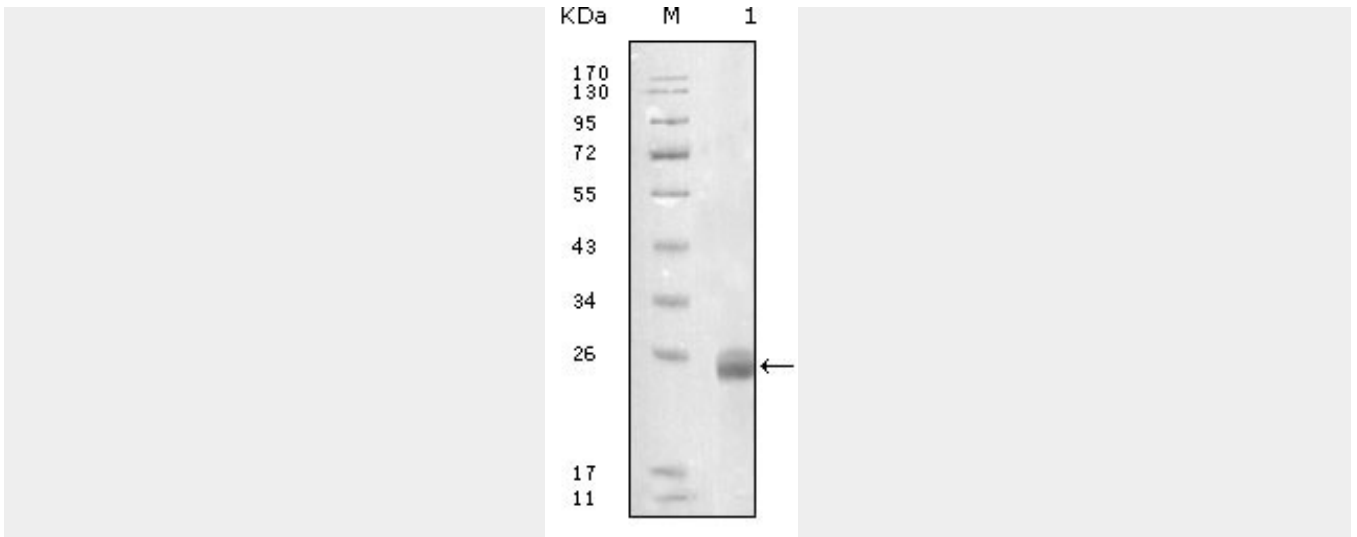


Figure 1: Western blot analysis using FBLN5 mouse mAb against truncated FBLN5-His recombinant protein.

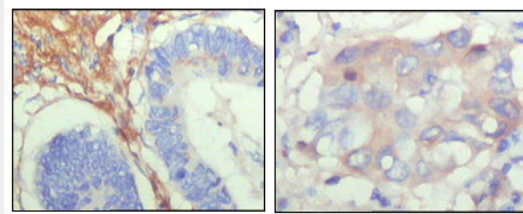


Figure 2: Immunohistochemical analysis of paraffin-embedded human colon cancer (left) and breast cancer (right) showing cytoplasmic localization with DAB staining using FBLN5 mouse mAb.

#### **FBLN5 Antibody - 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.