

# FBLN5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP18010b

#### **Product Information**

**Application** WB, E **Primary Accession** Q9UBX5 **Other Accession** NP 006320.2 Reactivity Human Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB23905 **Calculated MW** 50180 393-421 **Antigen Region** 

## **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

**Target/Specificity** This FBLN5 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 393-421 amino acids from the

C-terminal region of human FBLN5.

**Dilution** WB~~1:1000 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

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

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

**Precautions** FBLN5 Antibody (C-term) 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).

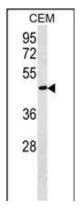
**Background** 

The protein encoded by this gene 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. Defects in this gene are a cause of autosomal dominant cutis laxa, autosomal recessive cutis laxa type I (CL type I), and age-related macular degeneration type 3 (ARMD3).

## References

Schneider, R., et al. J. Mol. Biol. 401(4):605-617(2010) Zhou, S., et al. Biochem. Biophys. Res. Commun. 398(2):247-253(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010) Zhao, J., et al. BMC Med. Genet. 11, 96 (2010) :

# **Images**



FBLN5 Antibody (C-term) (Cat. #AP18010b) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the FBLN5 antibody detected the FBLN5 protein (arrow).

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