SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Marker Primary Antibody]

Rabbit Anti-Fibulin 5/FITC Conjugated antibody

Catalog Number: SL0810R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Fibulin 5/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human Fibulin 5
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Background:	background: Fibulin 5: A protein that belongs to a family of extracellular proteins expressed in the basement membranes of blood vessels. Fibulin 5 may be essential for the polymerization of elastin. Missense mutations in FBLN5, the gene that encodes fibulin 5, appear responsible for 1-2% of cases of age-related macular degeneration (AMD). FBLN5 is located on chromosome 14 in band 14q32.1. See also: Fibulin 3. May play a role in vascular growth and maturation during development and in lesions of injured vessels. **Function:** Promotes adhesion of endothelial cells through interaction of integrins and the RGD motif. Could be a vascular ligand for integrin receptors and may play a role in vascular development and remodeling. **Subunit:** Homodimer. **Subcellular Location:** Secreted. **Tissue Specificity:** 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. DISEASE: Cutis laxa, autosomal dominant, 2 (ADCL2) [MIM:614434]: A

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	connective tissue disorder characterized by loose, hyperextensible skin with decreased resilience and elasticity leading to a premature aged appearance. Face, hands, feet, joints, and torso may be differentially affected. Additional variable clinical features are gastrointestinal diverticula, hernia, and genital prolapse. Rare manifestations are pulmonary artery stenosis, aortic aneurysm, bronchiectasis, and emphysema. Note=The disease is caused by mutations affecting the gene represented in this entry. Cutis laxa, autosomal recessive, 1A (ARCL1A) [MIM:219100]: A connective tissue disorder characterized by loose, hyperextensible skin with decreased resilience and elasticity leading to a premature aged appearance. Face, hands, feet, joints, and torso may be differentially affected. The clinical spectrum of autosomal recessive cutis laxa is highly heterogeneous with respect to organ involvement and severity. Type I autosomal recessive cutis laxa is a specific, life-threatening disorder with organ involvement, lung atelectasis and emphysema, diverticula of the gastrointestinal and genitourinary systems, and vascular anomalies. Associated cranial anomalies, late closure of the fontanel, joint laxity, hip dislocation, and inguinal hernia have been observed but are uncommon. Note=The disease is caused by mutations affecting the gene represented in this entry. Age-related macular degeneration 3 (ARMD3) [MIM:608895]: A form of age-related macular degeneration, a multifactorial eye disease and the most common cause of irreversible vision loss in the developed world. In most patients, the disease is manifest as ophthalmoscopically visible yellowish accumulations of protein and lipid that lie beneath the retinal pigment epithelium and within an elastin-containing structure known as Bruch membrane. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry. **Similarity:** Belongs to the fibulin family. Contains 6 EGF-like domains. **Database links:** **Entrez Gene:** 10516 Human **Entrez Gene:** 23876 Mouse Omim: 604580 Human **SwissProt:** Q9UBX5 Human **SwissProt:** Q9WVH9 Mouse **Unigene:** 332708 Human **Unigene:** 288381 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Fibulin-5 Fibulin-5Also known as FBLN-5, DANCE or EVEC, it is a member of the Extracellular matrix protein family, plays an important role in tissue and organ development, remodeling and repair, and interacts with endothelial cells. Fibulin-5 is widely distributed in elastin-rich tissues, can directly bind to tropoelastin,and anchor the latter to the cell surface,,which is crucial for the formation of elastic fibers, and plays an important role in vascular development and repair. In addition,Fibuljn-5It can also promote wound healing, Related to cell proliferation, motility and invasion Some scholars call fibulin-5 the "Key protein in skin aging" and a protein related to skin elasticity; it is critical for the development of elastic fibers, which fix the outer wall of cells, keep the skin firm, and maintain the flexibility of the kidney and blood vessels. Some scholars also believe that: fibulin-5 can inhibit angiogenesis; reduced or lost expression of this protein during tumor metastasis may potentially be used in tumor therapy research.

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