Fibrillin 1 (FBN1) ELISA Kit for Fish

PRODUCT OVERVIEW

Product Name	Fibrillin 1 (FBN1), ELISA Kit
Full Product Name	Fish Fibrillin 1 ELISA Kit
Product Gene Name	FBN1 elisa kit
Species Reactivity	Fish
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	312,237 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (48700503..48937985, complement). Location: 15q21.1
OMIM	102370
3D Structure	ModBase 3D Structure for P35555
Related Product Information for FBN1 elisa kit	MBS012169 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Fibrillin 1 (FBN1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing FBN1. The ELISA analytical biochemical technique of the MBS012169 kit is based on FBN1 antibody-FBN1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect FBN1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, FBN1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of FBN1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FBN1. It may not necessarily be applicable to this product.

NCBI GI #	281485550
NCBI GeneID	2200
NCBI Accession #	NP_000129.3
UniProt Primary Accession #	P35555
UniProt Secondary Accession #	Q15972; Q75N87; B2RUU0; D2JYH6
UniProt Related Accession #	P35555
GenBank Nucleotide #	NM_000138.4
NCBI Official Full Name	fibrillin-1
NCBI Official Synonym Full Names	fibrillin 1
NCBI Official Symbol	FBN1
NCBI Official Synonym Symbols	FBN; SGS; WMS; MASS; MFS1; OCTD; SSKS; WMS2; ACMICD; ECTOL1; GPHYSD2
UniProt Protein Name	Fibrillin-1

Protein Family	Fibrillin
UniProt Gene Name	FBN1
UniProt Synonym Gene Names	FBN
UniProt Entry Name	FBN1_HUMAN
NCBI Protein Information	fibrillin-1; fibrillin 15
NCBI Summary for FBN1	This gene encodes a member of the fibrillin family. The encoded protein is a large, extracellular matrix glycoprotein that serve as a structural component of 10-12 nm calcium-binding microfibrils. These microfibrils provide force bearing structural support in elastic and nonelastic connective tissue throughout the body. Mutations in this gene are associated with Marfan syndrome, isolated ectopia lentis, autosomal dominant Weill-Marchesani syndrome, MASS syndrome, and Shprintzen-Goldberg craniosynostosis syndrome. [provided by RefSeq, Jul 2008]
UniProt Comments for FBN1	FBN1: a large, extracellular matrix glycoprotein of the fibrillin family that serves as a structural component of 10-12 nm calcium-binding microfibrils, which occur either in association with elastin or in elastin-free bundles. Fibrillin-1-containing microfibrils provide long-term force bearing structural support in elastic and nonelastic connective tissue throughout the body. May regulate osteoblast maturation by controlling TGF-beta bioavailability and calibrating TGF-beta and BMP levels, respectively. Defects in this protein are associated with Marfan syndrome, isolated ectopia lentis, autosomal dominant Weill-Marchesani syndrome, MASS syndrome, and Shprintzen-Goldberg craniosynostosis syndrome. Interacts with COL16A1. Protein type: Extracellular matrix; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 15q21.1 Cellular Component: extracellular matrix; proteinaceous extracellular matrix; extracellular space; extracellular region; microfibril; basement membrane Molecular Function: protein binding; extracellular matrix structural constituent; calcium ion binding Biological Process: extracellular matrix disassembly; extracellular matrix organization and biogenesis; heart development; skeletal development; metanephros development Disease: Ectopia Lentis 1, Isolated, Autosomal Dominant; Mass Syndrome; Weill-marchesani Syndrome 2; Stiff Skin Syndrome; Acromicric Dysplasia; Marfan Syndrome; Geleophysic Dysplasia 2
Research Articles on FBN1	**1.** missense mutations in FBN1 gene have an effect on splicing which can be identified by direct RNA analysis
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