SHFM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SHFM1, Polyclonal Antibody
Full Product Name	SHFM1 Antibody; FITC conjugated
Product Gene Name	anti-SHFM1 antibody
Product Synonym Names	26S proteasome complex subunit DSS1; Deleted in split hand/split foot protein 1; Split hand/foot deleted protein 1; Split hand/foot malformation type 1 protein; SHFM1; DSS1; SHFDG1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: SHFM1 (MBS7001602) FITC Conjugated Antibody: SHFM1 (MBS7001328)
Molecular Weight	8,278 Da
OMIM	601285
3D Structure	ModBase 3D Structure for P60896
Immunogen	Recombinant human 26S proteasome complex subunit DSS1 protein
Conjugation	FITC
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-5736 / sc-5733 / sc-28848
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SHFM1 antibody	ELISA (EIA)
Related Product Information for anti-SHFM1 antibody	Subunit of the 26S proteasome which plays a role in ubiquitin-dependent proteolysis (PubMed:15117943). Component of the TREX-2 complex (transcription and export complex 2), composed of at least ENY2, GANP, PCID2, DSS1, and either centrin CETN2 or CETN3 (PubMed:22307388). The TREX-2 complex functions in docking export-competent ribonucleoprotein particles (mRNPs) to the nuclear entrance of the nuclear pore complex (nuclear basket). TREX-2 participates in mRNA export and accurate chromatin positioning in the nucleus by tethering genes to the nuclear periphery. Binds and stabilizes BRCA2 and is thus involved in the control of R-loop-associated DNA damage and thus transcription-associated genomic instability. R-loop accumulation increases in DSS1-depleted cells.
Other Notes	Small volumes of anti-SHFM1 antibody 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.
Searchable Terms for SHFM1 purchase	MBS7001328 is an antibody targeting SHFM1. Also known as SHFM1 Antibody; FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SHFM1. It may not necessarily be applicable to this product.

NCBI GI #	5453640
NCBI GeneID	7979
NCBI Accession #	NP_006295.1
UniProt Primary Accession #	P60896
UniProt Secondary Accession #	Q13437; Q61067
UniProt Related Accession #	P60896
GenBank Nucleotide #	NM_006304.1
NCBI Official Full Name	26S proteasome complex subunit DSS1
NCBI Official Synonym Full Names	split hand/foot malformation (ectrodactyly) type 1
NCBI Official Symbol	SHFM1
NCBI Official Synonym Symbols	ECD; DSS1; SEM1; SHFD1; SHSF1; Shfdg1
UniProt Protein Name	26S proteasome complex subunit DSS1
UniProt Synonym Protein Names	Deleted in split hand/split foot protein 1; Split hand/foot deleted protein 1; Split hand/foot malformation type 1 protein
Protein Family	26S proteasome complex
UniProt Gene Name	SHFM1
UniProt Synonym Gene Names	DSS1; SHFDG1
UniProt Entry Name	DSS1_HUMAN
NCBI Protein Information	26S proteasome complex subunit DSS1
NCBI Summary for SHFM1	The product of this gene has been localized within the split hand/split foot malformation locus SHFM1 at chromosome 7. It has been proposed to be a candidate gene for the autosomal dominant form of the heterogeneous limb developmental disorder split hand/split foot malformation type 1. In addition, it has been shown to directly interact with BRCA2. It also may play a role in the completion of the cell cycle. [provided by RefSeq, Jul 2008]
UniProt Comments for SHFM1	SHFM1: Subunit of the 26S proteasome which plays a role in ubiquitin-dependent proteolysis. Belongs to the DSS1/SEM1 family. Protein type: DNA repair, damage; Proteasome complex; Protease Chromosomal Location of Human Ortholog: 7q21.3 Cellular Component: integrator complex; proteasome complex Molecular Function: protein binding Biological Process: double-strand break repair via homologous recombination; proteolysis Disease: Split-hand/foot Malformation 1
Research Articles on SHFM1	**1.** SHFM1 confers cell cycle progression and resistance to p53 stabilizing drugs in gastric cancer cells.
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