

DSS1 / SHFM1 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF2377a**Specification**

DSS1 / SHFM1 Antibody (C-Term) - Product Information

Application	ICC, Pep-ELISA
Primary Accession	P60896
Other Accession	NP_006295.1 , 7979 , 20422 (mouse)
Predicted	Human, Mouse, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	8278

DSS1 / SHFM1 Antibody (C-Term) - Additional Information**Gene ID** 7979**Other 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

Dilution

ICC~~N/A

Pep-ELISA~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

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

DSS1 / SHFM1 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

DSS1 / SHFM1 Antibody (C-Term) - Protein Information**Name** SEM1 ([HGNC:10845](#))**Function**

Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions,

and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair (PubMed:15117943). Component of the TREX-2 complex (transcription and export complex 2), composed of at least ENY2, GANP, PCID2, SEM1, 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 SEM1- depleted cells.

Cellular Location

Nucleus.

Tissue Location

Expressed in limb bud, craniofacial primordia and skin

DSS1 / SHFM1 Antibody (C-Term) - 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](#)

DSS1 / SHFM1 Antibody (C-Term) - Images**DSS1 / SHFM1 Antibody (C-Term) - References**

Identification of Dss1 as a 12-O-Tetradecanoylphorbol-13-acetate-responsive Gene Expressed in Keratinocyte Progenitor Cells, with Possible Involvement in Early Skin Tumorigenesis. Wei SJ, Trempus CS, Cannon RE, Bortner CD, Tennant RW. J Biol Chem. 2003 Jan 17;278(3):1758-68. PMID: 12419822