

SHFM1/DSS1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55574**Specification****SHFM1/DSS1 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	P60896
Reactivity	Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	8278

SHFM1/DSS1 Polyclonal Antibody - Additional Information**Gene ID** 7979**Other Names**

26S proteasome complex subunit SEM1, 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, SEM1 ([HGNC:10845](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=10845))

Dilution

IHC-P ~ ~ N/A
IHC-F ~ ~ N/A
IF ~ ~ 1:50 ~ 200
ICC ~ ~ N/A
E ~ ~ N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

SHFM1/DSS1 Polyclonal Antibody - 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](http://www.uniprot.org/citations/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.

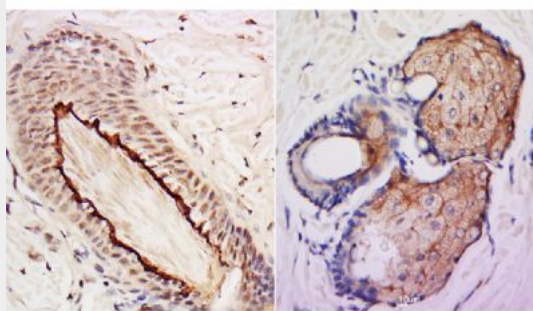
Tissue Location

Expressed in limb bud, craniofacial primordia and skin

SHFM1/DSS1 Polyclonal Antibody - 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](#)

SHFM1/DSS1 Polyclonal Antibody - Images

Tissue/cell: human skin tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-DSS1 Polyclonal Antibody, Unconjugated(bs-14432R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining