

MOSPD1 Antibody

Catalog # ASC11634

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q9UJG1
Other Accession	NP_062456 , 9506543
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	24086
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	MOSPD1 Antibody can be used for detection of MOSPD1 by Western blot at 1 µg/mL.

Additional Information

Gene ID	56180
Other Names	Motile sperm domain-containing protein 1, MOSPD1
Target/Specificity	MOSPD1;
Reconstitution & Storage	MOSPD1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	MOSPD1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MOSPD1
Function	Plays a role in differentiation and/or proliferation of mesenchymal stem cells. Proposed to be involved in epithelial-to- mesenchymal transition (EMT). However, another study suggests that it is not required for EMT or stem cell self-renewal and acts during later stages of differentiation.
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250 UniProtKB:Q8VEL0}; Multi-pass membrane protein. Golgi apparatus membrane {ECO:0000250 UniProtKB:Q8VEL0}; Multi-pass membrane protein

Background

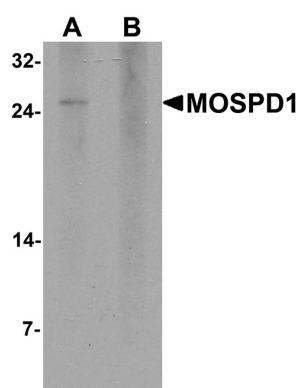
MOSPD1 Antibody: The Motile sperm domain-containing protein 1 (MOSPD1) is part of a family of proteins defined by the presence of a major sperm protein (MSP) domain and two transmembrane domains. MOSPD1 codes for a small protein that localizes to the endoplasmic reticulum (ER) and the Golgi apparatus and has been suggested to play a role in the developmental regulation at the switch between mesenchymal and epithelial cells.

References

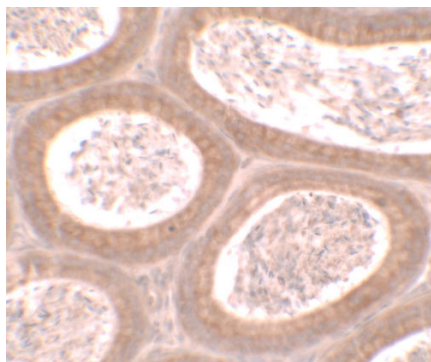
Pall GS, Wallis J, Axton R, et al. A novel transmembrane MSP-containing protein that plays a role in the right ventricle development. *Genomics* 2004; 84:1051-9.

Thaler R, Rumpler M, Spitzer S, et al. Mospd1, a new player in mesenchymal versus epidermal cell differentiation. *J. Cell Physiol.* 2011; 226:2505-15.

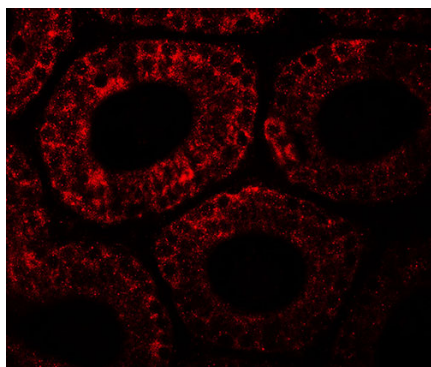
Images



Western blot analysis of MOSPD1 in human brain tissue lysate with MOSPD1 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of MOSPD1 in mouse testis tissue with MOSPD1 antibody at 2.5 µg/ml.



Immunofluorescence of MOSPD1 in mouse testis tissue with MOSPD1 antibody at 20 µg/ml.