

Anti-MOV10L1 Antibody

Catalog # AP60107

Product Information

Application	WB, IHC
Primary Accession	Q9BXT6
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	135293

Additional Information

Gene ID	54456
Other Names	Putative helicase Mov10l1; Moloney leukemia virus 10-like protein 1; MOV10-like protein 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MOV10L1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	MOV10L1 (HGNC:7201)
Function	ATP-dependent 5'-3' RNA helicase required during spermatogenesis to repress transposable elements and prevent their mobilization, which is essential for germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Involved in the primary piRNA metabolic process. Specifically binds to piRNA precursors and promotes the generation of intermediate piRNA processing fragments that are subsequently loaded to Piwi proteins. Acts via its ATP-dependent RNA helicase activity: displays 5'-3' RNA unwinding activity and probably mediates unwinding and funneling of single-stranded piRNA precursor transcripts to the endonuclease that catalyzes the first cleavage step of piRNA processing to generate piRNA intermediate fragments that are subsequently loaded to Piwi proteins.

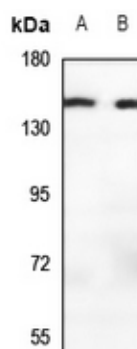
Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q99MV5}. Note=Component of the meiotic nuage, also named P granule, a germ-cell- specific organelle required to repress transposon activity during meiosis. {ECO:0000250|UniProtKB:Q99MV5}

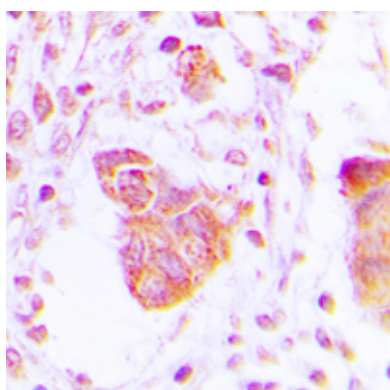
Tissue Location

[Isoform 1]: Specifically expressed in testis.

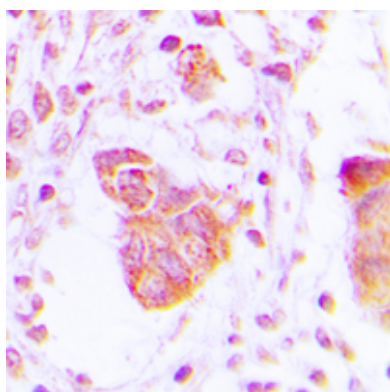
Images



Western blot analysis of MOV10L1 expression in rat testis (A), mouse testis (B) whole cell lysates. (Predicted band size: 135 kD; Observed band size: 135 kD)



Immunohistochemical analysis of MOV10L1 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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