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DDX4/MVH (3H13) Rabbit Monoclonal Antibody

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Catalog # AP93808

Product Information

Application	WB
Primary Accession	Q64060
Reactivity	Rat, Mouse
Clonality	Monoclonal
Calculated MW	77955

Additional Information

Gene ID	310090
Other Names	Probable ATP-dependent RNA helicase DDX4, 3.6.4.13, DEAD box protein 4, Vasa homolog, rVLG, Ddx4
Dilution	WB~~1:1000
Storage Conditions	-20℃

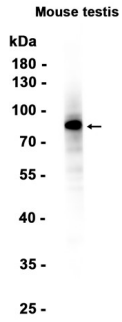
Protein Information

Name	Ddx4
Function	ATP-dependent RNA helicase required during spermatogenesis to repress transposable elements and preventing their mobilization, which is essential for the 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 secondary piRNAs metabolic process, the production of piRNAs in fetal male germ cells through a ping-pong amplification cycle. Required for PIWIL2 slicing-triggered piRNA biogenesis: helicase activity enables utilization of one of the slice cleavage fragments generated by PIWIL2 and processing these pre-piRNAs into piRNAs.
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q61496}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q61496} 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:Q61496}
Tissue Location	Testis.

Background

ATP-dependent RNA helicase required during spermatogenesis to repress transposable elements and preventing their mobilization, which is essential for the germline integrity

Images



Western blot analysis of extracts from Mouse testis tissue using AP93808 at 1:1000.