

TDRD9 Rabbit pAb

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Catalog # AP57974

Product Information

Primary Accession	Q8NDG6
Predicted	Rat, Dog, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	155683
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TDRD9/HIG1
Epitope Specificity	801-900/1382
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus. Component of the nuage, also named P granule, a germ-cell-specific organelle required to repress transposon during meiosis. Specifically localizes to piP-bodies, a subset of the nuage which contains secondary piRNAs. PIWIL2 is required for its localization to piP-bodies.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Probable ATP-binding RNA helicase which plays a central role during spermatogenesis by repressing transposable elements and prevent 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 govern the methylation and subsequent repression of transposons. Its association with PIWIL4 and the piP-bodies suggests a participation in the secondary piRNAs metabolic process.

Additional Information

Gene ID	122402
Other Names	ATP-dependent RNA helicase TDRD9, 3.6.4.13, TDRD9 (HGNC:20122)
Dilution	ELISA=1:5000-10000
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.

Protein Information

Name	TDRD9 (HGNC:20122)
Function	ATP-binding RNA helicase required during spermatogenesis (PubMed: 28536242). Required to repress transposable elements and prevent 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. Acts downstream of piRNA biogenesis: exclusively required for transposon silencing in the nucleus, suggesting that it acts as a nuclear effector in the nucleus together with PIWIL4.
Cellular Location	Cytoplasm. Nucleus {ECO:0000250 UniProtKB:Q14BI7}. Note=Component of the nuage, also named P granule, a germ-cell-specific organelle required to repress transposon activity during meiosis. Specifically localizes to piP-bodies, a subset of the nuage which contains secondary piRNAs. PIWIL2 is required for its localization to piP-bodies {ECO:0000250 UniProtKB:Q14BI7}

Background

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