

Rabbit PIWIL1 Monoclonal Antibody | anti-PIWIL1 antibody

PIWIL1 Antibody

CATALOG # AAA312592	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

PIWIL1; Monoclonal Antibody; PIWIL1 Antibody; HIWI antibody; MIWI antibody; Piwi (Drosophila) like 1 antibody; PIWI antibody; Piwi homolog antibody; Piwi like 1 (drosophila) antibody; Piwi like 1 antibody; Piwi-like protein 1 antibody; PIWIL1 antibody; PIWL1_HUMAN antibody; anti-PIWIL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	JU35-12
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-PIWIL1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



IHC (Immunohistochemisry)

Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-PIWIL1 antibody. Counter stained with hematoxylin.



IHC (Immunohiostchemistry)

Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-PIWIL1 antibody. Counter stained with hematoxylin.



WB (Western Blot)

Western blot analysis of PIWIL1 on mouse testis tissue lysate using anti-PIWIL1 antibody at 1/500 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-PIWIL1 antibody	Endoribonuclease that plays a central role in postnatal germ cells by repressing 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. Directly binds methylated piRNAs, a class of 24 to 30 nucleotide RNAs that are generated by a Dicer-independent mechanism and are primarily derived from transposons and other repeated sequence elements. Strongly prefers a uridine in the first position of their guide (g1U preference, also named 1U-bias). Not involved in the piRNA amplification loop, also named ping-pong amplification cycle. Acts as an endoribonuclease that cleaves transposon messenger RNAs. Besides their function in transposable elements repression, piRNAs are probably involved in other processes during meiosis such as translation regulation. Probable component of some RISC complex, which mediates RNA cleavage and translational silencing. Also plays a role in the formation of chromatoid bodies and is required for some miRNAs stability. Required to sequester RNF8 in the cytoplasm until late spermatogenesis; RNF8 being released upon ubiquitination and degradation of PIWIL1.
Product Categories/Family for anti-PIWIL1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	300244501
NCBI GeneID	9271
NCBI Accession #	NP_001177900.1; NP_004755.2
NCBI GenBank Nucleotide #	NM_001190971.1
UniProt Accession #	Q96J94; O95404; Q8NA60; Q8TBY5; Q96JD5; A4F266
Molecular Weight	98,603 Da
NCBI Official Full Name	piwi-like protein 1 isoform 2
NCBI Official Synonym Full Names	piwi-like 1 (Drosophila)
NCBI Official Symbol	PIWIL1
NCBI Official Synonym Symbols	HIWI; MIWI; PIWI
NCBI Protein Information	piwi-like protein 1; piwi homolog
UniProt Protein Name	Piwi-like protein 1
UniProt Gene Name	PIWIL1
UniProt Synonym Gene Names	HIWI
UniProt Entry Name	PIWL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/piwil1-antibody-clone-ju35-12-immunohistochemistry-western-blot-elisa/312592>