

Anti-PIWIL1 Antibody (9H748)

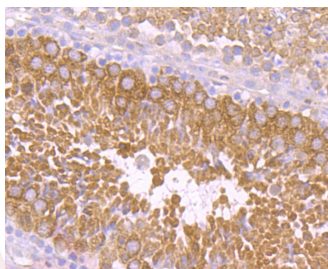
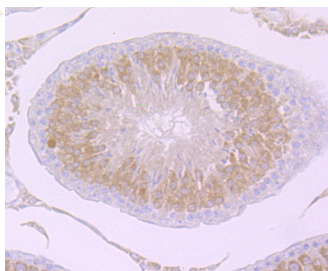
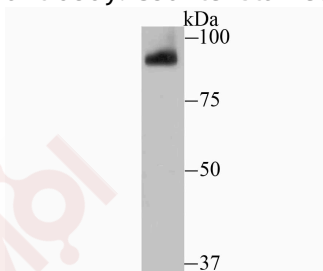
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 98 kDa.
Clone:	9H748
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of PIWIL1 on mouse testis tissue lysate using anti-PIWIL1 antibody at 1/500 dilution.
2. Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-PIWIL1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-PIWIL1 antibody. Counter stained with hematoxylin.



Application:	IHC,WB
Recommended	WB: 1:500-1000; IHC: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q96J94

Synonyms: PIWL1_HUMAN;Piwi-like protein 1;PIWI;MIWI;Piwi homolog;Piwi like 1;Piwi like 1 (drosophila);
Piwi (Drosophila) like 1;PIWIL 1;HIWI

Research Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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