

## Recombinant Human PIWIL4

Catalog No: #GP10701

Package Size: #GP10701-1 100ug

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## Description

Product Name	Recombinant Human PIWIL4
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 546-838 amino acids of human piwi-like RNA-mediated gene silencing 4
Target Name	Piwi-like RNA-mediated gene silencing 4
Other Names	HIWI2; MIWI2
Accession No.	Swissprot:Q7Z3Z4Gene Accession:BC031060
Uniprot	Q7Z3Z4
GenID	143689;
Storage	-20~-80°C, pH 7.6 PBS

## Background

PIWIL4 belongs to the Argonaute family of proteins, which function in development and maintenance of germline stem cells. 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. Directly binds 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. Associates with secondary piRNAs antisense and PIWIL2/MILI is required for such association.

## References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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