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anti-PIWIL4 antibody (N-Term)





Overview	
Quantity:	100 μL
Target:	PIWIL4
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIWIL4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)
Product Details	
Immunogen:	A synthesized peptide derived from human PIWIL4, corresponding to a region within N-terminal amino acids.
Isotype:	IgG
Specificity:	PIWIL4 Antibody detects endogenous levels of total PIWIL4.
Predicted Reactivity:	Horse
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).
Target Details	
Target:	PIWIL4

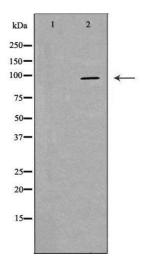
Target Details

Alternative Name:	PIWIL4 (PIWIL4 Products)
Background:	Description: Plays a central role during spermatogenesis by repressing transposable elements
	and preventing their mobilization, which is essential for the germline integrity (By similarity).
	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 (By similarity). 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 (By similarity).
	Associates with secondary piRNAs antisense and PIWIL2/MILI is required for such association
	(By similarity). The piRNA process acts upstream of known mediators of DNA methylation (By
	similarity). Does not show endonuclease activity (By similarity). Plays a key role in the piRNA
	amplification loop, also named ping-pong amplification cycle, by acting as a 'slicer-incompetent'
	component that loads cleaved piRNAs from the 'slicer-competent' component PIWIL2 and
	target them on genomic transposon loci in the nucleus (By similarity). May be involved in the
	chromatin-modifying pathway by inducing 'Lys-9' methylation of histone H3 at some loci
	(PubMed:17544373).
	Gene: PIWIL4
Molecular Weight:	97kDa
Gene ID:	143689
UniProt:	Q7Z3Z4
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western blot analysis of extracts of hela, using PIWIL4 antibody. The lane on the left is treated with the antigen-specific peptide.