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Datasheet for ABIN7163479

anti-PIWIL4 antibody (AA 12-235) (Biotin)

Overview

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|----------------------|--|
| Quantity: | 100 µg |
| Target: | PIWIL4 |
| Binding Specificity: | AA 12-235 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PIWIL4 antibody is conjugated to Biotin |
| Application: | ELISA |

Product Details

| | |
|-------------------|--|
| Immunogen: | Recombinant Human Piwi-like protein 4 protein (12-235AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | >95%, Protein G purified |

Target Details

| | |
|-------------------|--|
| Target: | PIWIL4 |
| Alternative Name: | PIWIL4 (PIWIL4 Products) |
| Background: | Background: Plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the |

Target Details

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 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. The piRNA process acts upstream of known mediators of DNA methylation. Participates in a piRNA amplification loop. Besides their function in transposable elements repression, piRNAs are probably involved in other processes during meiosis such as translation regulation (By similarity). May be involved in the chromatin-modifying pathway by inducing 'Lys-9' methylation of histone H3 at some loci (PubMed:12906857).

Aliases: DKFZp686P01248 antibody, FLJ36156 antibody, HILI 2 antibody, HILI2 antibody, HIWI 2 antibody, HIWI2 antibody, Miwi 2 protein antibody, Miwi2 antibody, PIWI antibody, Piwi like 2 antibody, Piwi like 4 (Drosophila) antibody, Piwi like 4 antibody, Piwi like protein 4 antibody, PIWI like protein antibody, Piwi like RNA mediated gene silencing 4 antibody, Piwi-like protein 4 antibody, PIWIL 4 antibody, Piwil4 antibody, PIWL4_HUMAN antibody

UniProt: [Q7Z3Z4](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.