G-Biosciences Image not found or type unknown

Immunotag™ PIWIL4 Antibody

Antibody Specification

Catalog No.	ITA7280
Product Description	Immunotag™ PIWIL4 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PIWIL4
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Fusion protein of human PIWIL4
Specificity	PIWIL4 Antibody detects endogenous levels of total PIWIL4
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	PIWIL4
Accession No.	Q7Z3Z4
Alternate Names	DKFZp686P01248; FLJ36156; HILI 2; HILI2; HIWI 2; HIWI2; Miwi 2 protein; Miwi2; PIWI; Piwi like 2; Piwi like 4 (Drosophila); Piwi like 4; Piwi like protein 4; PIWI like protein; Piwi like RNA mediated gene silencing 4; Piwi-like protein 4; PIWIL 4; Piwil4; PIWL4_HUMAN;

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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).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	97kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.

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