Datasheet for ABIN7601940

anti-PIWIL4 antibody (AA 51-749)

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Overview

Quantity:	100 µg
Target:	PIWIL4
Binding Specificity:	AA 51-749
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIWIL4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-PIWIL4/PIWI Antibody Picoband®
Immunogen:	E.coli-derived human PIWIL4/PIWI recombinant protein (Position: R51-N749).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PIWIL4/PIWI Antibody Picoband® (ABIN7601940). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	PIWIL4
Alternative Name:	PIWIL4 (PIWIL4 Products)
Background:	Synonyms: PR domain zinc finger protein 5, PR domain-containing protein 5, PRDM5, PFM2 Tissue Specificity: Widely expressed with highest levels in colon and ovary. Tends to be silenced in breast, colorectal, gastric and liver cancer tissues. Background: PIWI-like protein 4 (PIWIL4) is a 97 kDa member of the argonaute family of proteins and the PIWI subfamily. Human PIWIL4 is 852 amino acids (aa) in length and contains one PAZ domain (aa 268-384) and one PIWI domain (aa 546-838). There are three isoforms for human PIWIL4. Isoform 1 is the standard protein. Isoform 2 has a two aa substitution for aa 1-29 in isoform 1 and a deletion of aa 523-852. Isoform 3 has a deletion of aa 1-69 and a deletion of aa 523-852. Human PIWIL4 shares 77 % aa sequence identity with mouse and rat PIWIL4. PIWIL4 plays a central role in spermatogenesis.
Molecular Weight:	97 kDa
Gene ID:	143689
UniProt:	Q7Z3Z4

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Carmell, M. A., Girard, A., van de Kant, H. J. G., Bourc'his, D., Bestor, T. H., de Rooij, D. G., Hannon, G. J. MIWI2 is essential for spermatogenesis and repression of transposons in the mouse male germline. Dev. Cell 12: 503-514, 2007. 2. De Fazio, S., Bartonicek, N., Di Giacomo, M., Abreu-Goodger, C., Sankar, A., Funaya, C., Antony, C., Moreira, P. N., Enright, A. J., O'Carroll, D. The endonuclease activity of Mili fuels piRNA amplification that silences LINE1 elements. Nature 480: 259-263, 2011. 3. Sasaki, T., Shiohama, A., Minoshima, S., Shimizu, N. Identification of eight members of the Argonaute family in the human genome. Genomics 82: 323-330, 2003.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized

Handling

Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.