

Anti-PIWIL4/PIWI antibody ab21869

★★★★★ [2 Abreviews](#) [6 References](#) [2 图像](#)

概述

产品名称	Anti-PIWIL4/PIWI抗体
描述	兔多克隆抗体to PIWIL4/PIWI
宿主	Rabbit
经测试应用	适用于: WB 不适用于: ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Mouse PIWIL4/PIWI aa 800 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab23535)
阳性对照	WB - Mouse testis tissue lysate, rat testis tissue lysate and human testis tissue lysate.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
纯度	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help. Immunogen affinity purified

克隆

多克隆

同种型

IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab21869于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

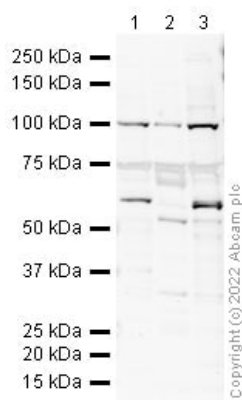
应用	Ab评论	说明
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 98 kDa (predicted molecular weight: 98 kDa). Block with 5% BSA for 1 hour and incubate antibody in TBST for 1 hour or more.

应用说明 Is unsuitable for ICC/IF.

靶标

功能	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 PWIL2/MILI is required for such association. The piRNA process acts upstream of known mediators of DNA methylation. Participates to 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.
组织特异性	Expressed in testis. According to PubMed:17544373, it is ubiquitously expressed.
序列相似性	Belongs to the argonaute family. Piwi subfamily. Contains 1 PAZ domain. Contains 1 Piwi domain.
翻译后修饰	Arginine methylation by PRMT5 is required for the interaction with Tudor domain-containing protein (TDRD1, TDRKH/TDRD2 and TDRD9) and subsequent localization to the meiotic nuage, also named P granule.
细胞定位	Nucleus. Cytoplasm. Probable component of the meiotic nuage, also named P granule, a germ-cell-specific organelle required to repress transposon during meiosis. PWIL2/MILI is required for nuclear localization.

图片



Western blot - Anti-PIWIL4/PIWI antibody (ab21869)

All lanes : Anti-PIWIL4/PIWI antibody (ab21869) at 1 µg/ml

Lane 1 : Mouse testis tissue lysate

Lane 2 : Human testis tissue lysate

Lane 3 : Rat testis tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

Predicted band size: 98 kDa

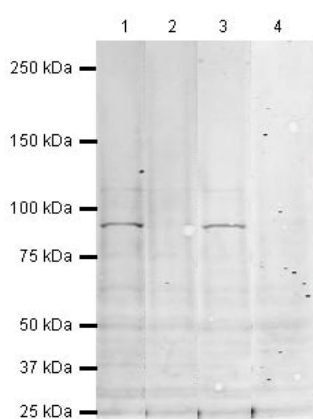
Observed band size: 98 kDa

Additional bands at: 56,52 kDa (possible isoform), 75 kDa (possible non-specific binding)

Exposure time: 12 minutes

Blocking buffer: 2% BSA

Gel type: MOPS



Western blot - Anti-PIWIL4/PIWI antibody (ab21869)

Lanes 1-2 : Anti-PIWIL4/PIWI antibody (ab21869) at 2 µg/ml

Lanes 3-4 : Anti-PIWIL4/PIWI antibody (ab21869) at 1 µg/ml

Lanes 1 & 3 : Testis (Mouse) Tissue Lysate - normal tissue ([ab4027](#))

Lanes 2 & 4 : Testis (Mouse) Tissue Lysate - normal tissue ([ab4027](#)) with Mouse PIWIL4/PIWI peptide ([ab23535](#)) at 1 µg/ml

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Rabbit IgG secondary antibody ([ab28446](#)) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 98 kDa

Observed band size: 98 kDa

ab21869 specifically recognises PWIL4/PWI at 98kDa, which is demonstrated by the efficient blocking by the immunizing peptide (**ab23535**)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors