

### Anti-PIWIL1 antibody ab105393

★★★★☆ [4 Abreviews](#) [4 References](#) [1 图像](#)

#### 概述

产品名称	Anti-PIWIL1抗体
描述	兔多克隆抗体to PIWIL1
宿主	Rabbit
特异性	At least three isoforms of PIWIL1 are known to exist; ab105393 will recognize the two longest isoforms. ab105393 is predicted to not cross-react with other PIWI family members.
经测试应用	<b>适用于:</b> WB
种属反应性	<b>与反应:</b> Human
免疫原	Synthetic peptide corresponding to Human PIWIL1 aa 60-110 (N terminal).
阳性对照	WB: HepG2 cell 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&amp;As</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p>
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

#### 应用

## The Abpromise guarantee

**Abpromise™** 承诺保证使用 ab105393 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 - 2 µg/ml. Predicted molecular weight: 99 kDa.

## 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 methylated 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. Besides their function in transposable elements repression, piRNAs are probably involved in other processes during meiosis such as translation regulation. Probable component of some RISC complex, which mediates RNA cleavage and translational silencing. Also plays a role in the formation of chromatoid bodies and is required for some miRNAs stability (By similarity). Isoform 3 may be a negative developmental regulator.

### 组织特异性

Detected in most fetal and adult tissues. Expressed in testes, specifically in germline cells; detected in spermatocytes and spermatids during spermatogenesis. Increased expression in testicular tumors originating from embryonic germ cells with retention of germ cells phenotype. No expression in testicular tumors of somatic origin, such as Sertoli cell and Leydig cell tumors. Overexpressed in gastric cancer cells. Isoform 3 is ubiquitously expressed, and specifically in CD34+ hematopoietic progenitor cells but not in more differentiated cells.

### 序列相似性

Belongs to the argonaute family. Piwi subfamily.  
Contains 1 PAZ domain.  
Contains 1 Piwi domain.

### 结构域

The PAZ domain specifically recognizes binds the 2'-O-methylated 3'-end of piRNAs.

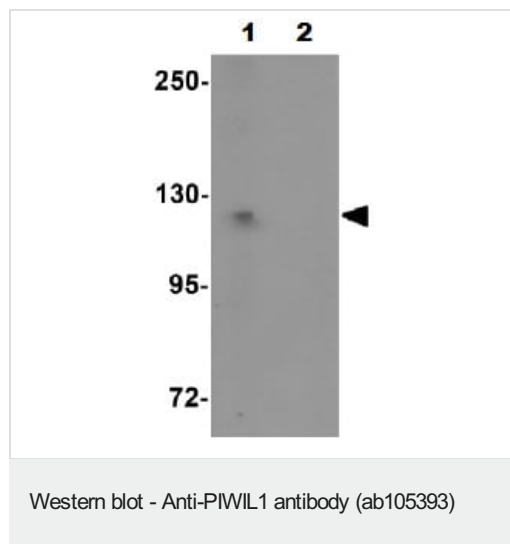
### 翻译后修饰

Arginine methylation by PRMT5 is required for the interaction with Tudor domain-containing protein (TDRD1, TDRKH/TDRD2, RNF17/TDRD4, TDRD6, TDRD7 and TDRD9) and subsequent localization to the meiotic nuage, also named P granule.

### 细胞定位

Cytoplasm. Component of the meiotic nuage, also named P granule, a germ-cell-specific organelle required to repress transposon during meiosis. Also present in chromatoid body.

## 图片



**All lanes :** Anti-PIWIL1 antibody (ab105393) at 1 µg/ml

**Lane 1 :** HepG2 cell lysate without blocking peptide.

**Lane 2 :** HepG2 cell lysate with blocking peptide.

Lysates/proteins at 15 µg per lane.

**Predicted band size:** 99 kDa

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

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