


Anti-PIWIL2 antibody ab85084

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概述

产品名称	Anti-PIWIL2抗体
描述	兔多克隆抗体to PIWIL2
宿主	Rabbit
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Human 预测可用于: Mouse, Rat, Horse, Cow, Dog, Chimpanzee 
免疫原	Synthetic peptide: VITRYNNRTYRIDVD , corresponding to internal sequence amino acids 418-433 of Human PIWIL2 Run BLAST with Run BLAST with
阳性对照	Testis tissue. Human fetal testis 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	Lyophilized:Reconstitute with 200ul distilled sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 1% BSA, 0.184% Tris glycine
纯度	Immunogen affinity purified
克隆	多克隆

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab85084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		1/200 - 1/500. Predicted molecular weight: 110 kDa.
IHC-P		1/100 - 1/400.

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. Plays an essential role in meiotic differentiation of spermatocytes, germ cell differentiation and in self-renewal of spermatogonial stem cells. Its presence in oocytes suggests that it may participate to similar functions during oogenesis in females. 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 primary piRNAs in the cytoplasm and is required for PMWL4/MIWI2 nuclear localization and association with secondary piRNAs antisense. 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. Indirectly modulate expression of genes such as PDGFRB, SLC2A1, ITGA6, GJA7, THY1, CD9 and STRA8. Inhibits tumor cell growth when repressed. When overexpressed, acts as an oncogene by inhibition of apoptosis and promotion of proliferation in tumors.

组织特异性

Expressed in adult testis and in most tumors.

序列相似性

Belongs to the argonaute family. Piwi subfamily.

Contains 1 PAZ domain.

Contains 1 Piwi domain.

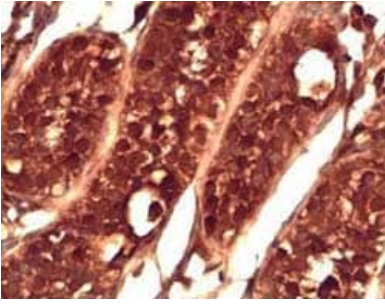
翻译后修饰

Arginine methylation by PRMT5 is required for the interaction with Tudor domain-containing protein TDRD1 and subsequent localization to the meiotic nuage, also named P granule.

细胞定位

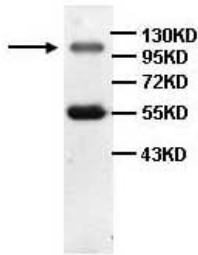
Cytoplasm. Present in chromatoid body. Probable component of the meiotic nuage, also named P granule, a germ-cell-specific organelle required to repress transposon during meiosis.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PIWIL2 antibody (ab85084)

Immunohistochemistry analysis of PIWIL2 in formalin-fixed paraffin-embedded human fetal testis tissue sections using ab85084 at 1/200 dilution.



Western blot - Anti-PIWIL2 antibody (ab85084)

Anti-PIWIL2 antibody (ab85084) at 1/200 dilution + Human fetal testis lysate

Predicted band size: 110 kDa

Observed band size: 110 kDa

Additional bands at: 55 kDa. We are unsure as to the identity of these extra bands.

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