

Anti-PIWIL4/PIWI antibody ab111714

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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, IHC-P, ICC/IF
种属反应性	与反应: Human 预测可用于: Monkey 
免疫原	Recombinant fragment corresponding to Human PIWIL4/PIWI aa 639-839. (AAH31060)
阳性对照	MCF7 and IMR32 cells and whole cell lysates; 59T xenograft tissue.
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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
纯度	Immunogen affinity purified
纯化说明	ab111714 is purified by antigen-affinity chromatography.
克隆	多克隆
同种型	IgG

The Abpromise guarantee **Abpromise™**承诺保证使用ab111714于以下的经测试应用

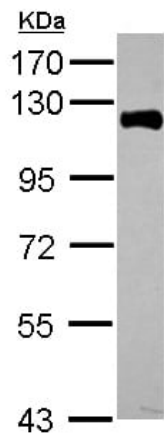
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/500 - 1/3000. Predicted molecular weight: 97 kDa.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. or Tris-EDTA buffer (PH8.0)
ICC/IF		1/100 - 1/500.

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

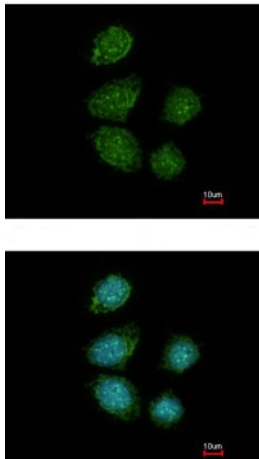


Western blot - Anti-PIWIL4/PIWI antibody (ab111714)

Anti-PIWIL4/PIWI antibody (ab111714) at 1/1000 dilution + MCF7 whole cell lysate at 30 μ g

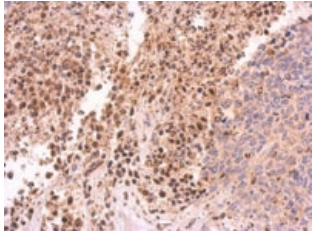
Predicted band size: 97 kDa

7.5% SDS-PAGE.



Immunocytochemistry/ Immunofluorescence - Anti-PIWIL4/PIWI antibody (ab111714)

ab111714 at 1/200 dilution staining PIWIL4/PIWI in Paraformaldehyde-fixed MCF7 cells by Immunofluorescence. Lower image shows cells co-stained with Hoechst 33342.



ab111714 at 1/500 dilution staining PIWIL4/PIWI in Formalin-fixed, paraffin-embedded 59T xenograft tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PIWIL4/PIWI antibody (ab111714)

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