

Anti-PIWIL4/PIWI antibody ab21869

★★★★★ [2 Abreviews](#) [6 References](#) [画像数 2](#)

製品の概要

製品名	Anti-PIWIL4/PIWI antibody
製品の詳細	Rabbit polyclonal to PIWIL4/PIWI
由来種	Rabbit
アプリケーション	適用あり: WB 適用なし: ICC/IF
種交差性	交差種: 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)
ポジティブ・コントロール	WB - Mouse testis tissue lysate, rat testis tissue lysate and human testis tissue lysate.
特記事項	<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>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
精製度	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

ポリ/モノ
アイソタイプ

ポリクローナル
IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab21869の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

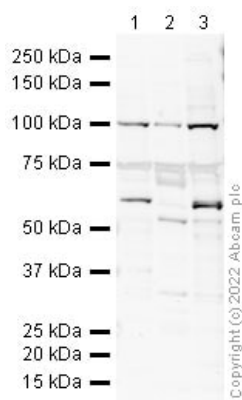
アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 98 kDa (predicted molecular weight: 98 kDa). Block with 5% BSA for 1 hour and incubate antibody in TBST for 1 hour or more.

追加情報 Is unsuitable for ICC/IF.

ターゲット情報

機能	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.
組織特異性	Expressed in testis. According to PubMed:17544373, it is ubiquitously expressed.
配列類似性	Belongs to the argonaute family. Piwi subfamily. Contains 1 PAZ domain. Contains 1 Piwi domain.
翻訳後修飾	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.
細胞内局在	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.

画像



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

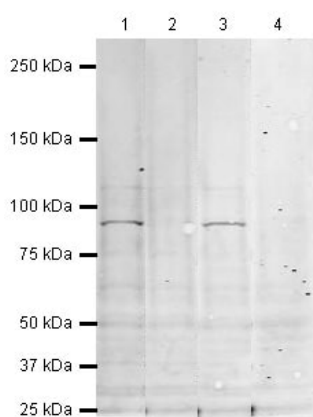
Observed band size: 98 kDa

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**)

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