abcam

Product datasheet

Anti-Nanog antibody ab14959

2 Abreviews 17 References 画像数 2

製品の概要

製品名	Anti-Nanog antibody
製品の詳細	Rabbit polyclonal to Nanog
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, Human
免疫原	Synthetic peptide corresponding to Mouse Nanog aa 250 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as **ab14960**)
特記事項	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. 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

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). 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 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.
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル

アイソタイプ 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ab14959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 34 kDa (predicted molecular weight: 34 kDa).

追加情報 Is unsuitable for ICC/IF.

ターゲット情報

機能 Transcription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. Imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophectoderm lineages. Blocks bone morphogenetic protein-induced mesoderm differentiation of ES cells by physically interacting with SMAD1 and interfering with the recruitment of coactivators to the active SMAD transcriptional complexes (By similarity). Acts as a transcriptional activator or repressor (By similarity). Binds optimally to the DNA consensus sequence 5'-TAAT[GT][GT]-3' or 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3' (By similarity). When overexpressed, promotes cells to enter into S phase and proliferation.

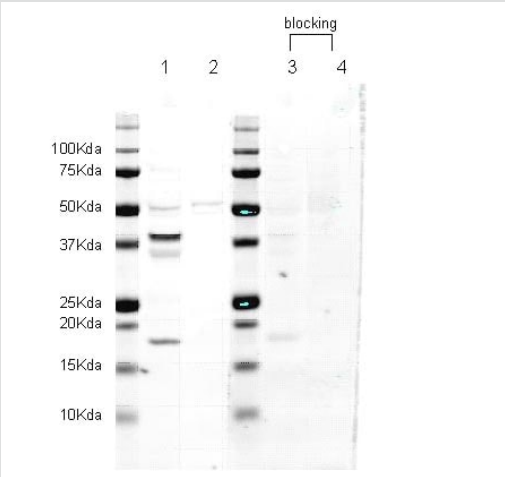
組織特異性 Expressed in testicular carcinoma and derived germ cell tumors (at protein level). Expressed in fetal gonads, ovary and testis. Also expressed in ovary teratocarcinoma cell line and testicular embryonic carcinoma. Not expressed in many somatic organs and oocytes.

配列類似性 Belongs to the Nanog homeobox family.
Contains 1 homeobox DNA-binding domain.

発生段階 Expressed in embryonic stem (ES) and carcinoma (EC) cells. Expressed in inner cell mass (ICM) of the blastocyst and gonocytes between 14 and 19 weeks of gestation (at protein level). Not expressed in oocytes, unfertilized oocytes, 2-16 cell embryos and early morula (at protein level). Expressed in embryonic stem cells (ES). Expression decreases with ES differentiation.

細胞内局在 Nucleus.

画像



Western blot - Anti-Nanog antibody (ab14959)

All lanes : Anti-Nanog antibody (ab14959) at 1 µg/ml

Lanes 3-4 : Mouse Nanog peptide (**ab14960**) at 1 µg/ml

Predicted band size: 34 kDa
Observed band size: 34.6 kDa
Additional bands at: 18 kDa (possible cross reactivity), 38 kDa (possible cross reactivity), 50 kDa (possible cross reactivity)

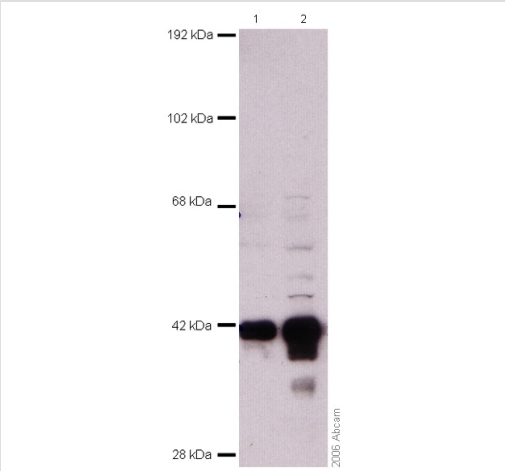
Lanes 1-4 : Nanog antibody (ab14959) at 1 ug/ml
Lanes 3-4 : Nanog peptide (**ab14960**) at 1 ug/ml

Observed band size: 34.2 kDa
Additional bands at: 18 kDa (possible cross reactivity), 38 kDa (possible cross reactivity), 50 kDa (possible cross reactivity).

Lanes 1 and 3: Mouse embryonic stem cell lysate (positive control)
Lanes 2 and 4: Human embryonic stem cell lysate (negative control)

ab14959 recognised a band of the expected size for Nanog in mouse embryonic stem cells but not in human embryonic stem cells. Additional bands were also recognised in mouse embyonic stem cells.

Performed under reducing conditions.



Western blot - Anti-Nanog antibody (ab14959)

This image is courtesy of Adam Yates and Ian Chambers, University of Edinburgh

All lanes : Anti-Nanog antibody (ab14959) at 0.8 µg/ml

All lanes : ES Cell Nuclear Extract

Predicted band size: 34 kDa

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