

Anti-Nanog antibody ab21624

★★★★★ [16 Abreviews](#) [257 References](#) [画像数 5](#)

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: ICC/IF, WB, Sandwich ELISA
種交差性	交差種: Human, Recombinant fragment
免疫原	Synthetic peptide corresponding to Human Nanog aa 29-49. Sequence: CGPEENYPQLQMSSAEMPHT

 [Run BLAST with](#)

 [Run BLAST with](#)

特記事項

Concentration of Anti-Nanog antibody: 0.2 mg/mL

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). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.1% Sodium azide Constituent: PBS
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

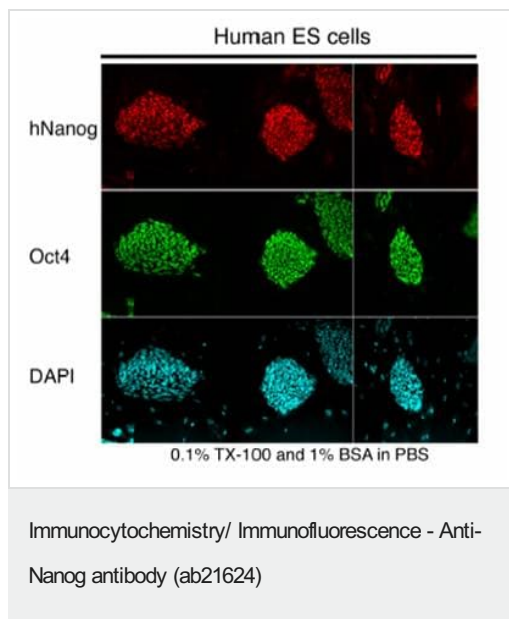
The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab21624の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF	★★★★★ (10)	1/1000.
WB	★★★★★ (3)	1/200. Detects a band of approximately 38 kDa (predicted molecular weight: 34 kDa). Some users report a stronger signal after blocking and diluting antibodies with 1% BSA instead of 5% milk. Mouse target cannot be detected by WB.
Sandwich ELISA		Use a concentration of 0.5 µg/ml. For sandwich ELISA, use this antibody as Detection at 0.5 µg/ml with <u>Mouse monoclonal [1E6C4] to Nanog (ab76586)</u> as Capture.

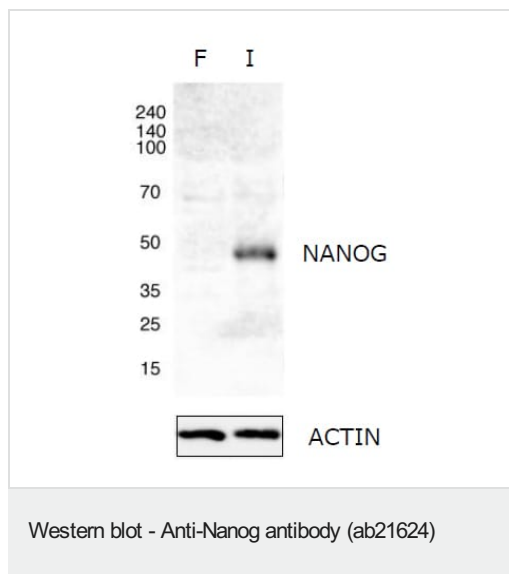
ターゲット情報

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 trophoctoderm 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



ab21624 at a 1/1000 dilution staining Nanog in human embryonic stem cells by ICC. An antibody towards Oct4, which has an identical staining pattern to ab21624, was used as a positive control.

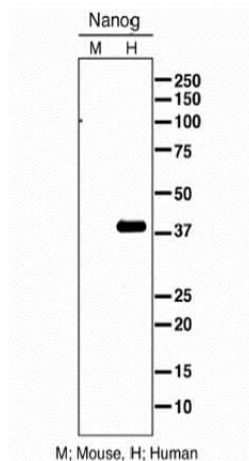


All lanes : Anti-Nanog antibody (ab21624) at 1/200 dilution

Lane 1 : Human fetal fibroblast lysate

Lane 2 : Human iPS cell lysate

Predicted band size: 34 kDa



Western blot - Anti-Nanog antibody (ab21624)

All lanes : Anti-Nanog antibody (ab21624) at 1/1000 dilution

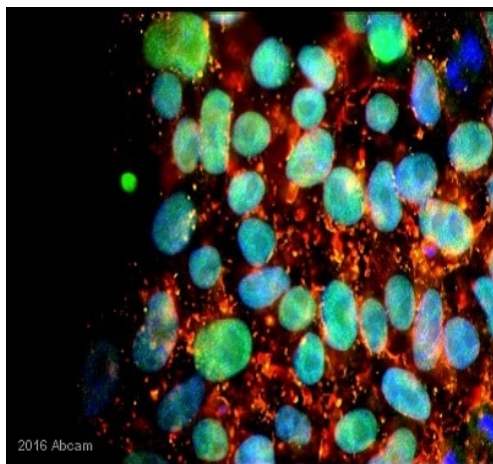
Lane 1 : whole cell extract of mouse 3T3 cells expressing mouse Nanog.

Lane 2 : whole cell extract of mouse 3T3 cells expressing human Nanog.

Predicted band size: 34 kDa

Observed band size: 38 kDa

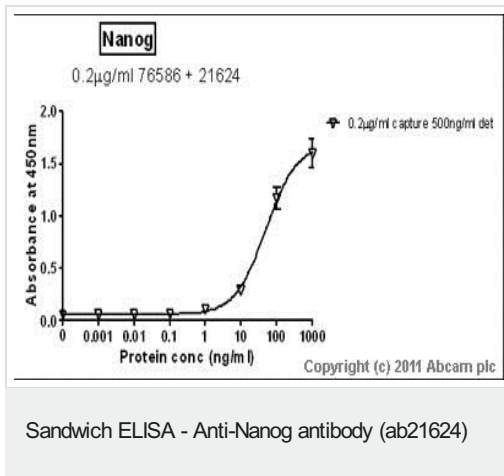
ab21624 recognizes human Nanog but does not recognize mouse Nanog in Western Blot.



Immunocytochemistry/ Immunofluorescence - Anti-Nanog antibody (ab21624)

Image courtesy of Mick Wauchope

Immunocytochemical analysis of Human iPSCs labeling Nanog with ab21624 at 1/75 dilution.



Standard Curve for Nanog (Analyte: **Nanog protein (ab50053)**); dilution range 1 pg/ml to 1 ug/ml using Capture Antibody **Mouse monoclonal [1E6C4] to Nanog (ab76586)** at 0.2 ug/ml and Detector Antibody **Rabbit polyclonal to Nanog - ChIP Grade (ab21624)** at 0.5 ug/ml.

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