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**Research Use Only. Not for diagnostic or therapeutic use.**

## EB06860 - Goat Anti-NANOG Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** NANOG, Nanog homeobox, HGNC:20857, homeobox transcription factor Nanog, homeobox transcription factor Nanog-delta 48

**Official Symbol:** NANOG

**Accession Number(s):** NP\_079141.2

**Human GeneID(s):** [79923](#)

**Non-Human GeneID(s):** 71950 (mouse), 414065 (rat)

### Immunogen

Peptide with sequence C-QNQRMKSKRWQKNN, from the internal region of the protein sequence according to NP\_079141.2.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:64000.

**Western blot:** Approx 38kDa band observed in Human Ovary lysates (calculated MW of 34.6kDa according to NP\_079141.2). Recommended concentration: 0.03-0.1µg/ml. Primary incubation was 1 hour.

**IHC:** This antibody was successfully used in: Vassena et al, Hum Mol Genet. 2012 Aug 1;21(15):3366-73. PMID: 22547223, Sancho-Martinez et al, Nat Commun. 2016 Feb 22;7:10743. PMID: 26899176, and Montserrat et al, Cell Transplant. 2012;21(5):815-25. PMID: 21944493.

**IF/ICC:** Parts of a keratinocyte-derived colony of induced pluripotent stem cells are stained for Nanog (green).

This antibody was successfully used in IF on Human: PMID: 30878013, 21681858, 22613719, 21877920. 21285354, 19890879, 19483674 and 18931654. This antibody was successfully used in ICC on Human: PMID: 31479876, 29034898 and 29034891. **Enzyme immunoassay:** This antibody does not work in PFA-fixed frozen embryos and ESC from

Mouse.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Dog, Pig

### Specific References

**This antibody has been successfully used in ICC on Human:**

N. Malerba, P. Benzoni, G.M. Squeo, et al

Generation of the induced human pluripotent stem cell lines CSSi009-A from a patient with GNB5 pathogenic variant, and CSSi010-A from a CRISPR/Cas9 engineered GNB5 knock-out human cell line.

Stem Cell Research (2019), <https://doi.org/10.1016/j.scr.2019.101547>.

PMID: 31479876

**This antibody has been successfully used in IF on Human:**

Estibaliz Arellano-Viera, Lorea Zabaleta, Julio Castaño, Garikoitz Azkona, Xonia Carvajal-Vergara, Alessandra Giorgetti

Generation of two transgene-free human iPSC lines from CD133+ cord blood cells (2019)  
<https://doi.org/10.1016/j.scr.2019.101410>

PMID: 30878013

**This antibody has been successfully used in ICC on Human:**

Mora C, Serzanti M, Giacomelli A, Beltramone S, Marchina E, Bertini V, Piovani G, Refsgaard L, Olesen MS, Cortellini V, Dell'Era P

Generation of induced pluripotent stem cells (iPSC) from an atrial fibrillation patient carrying a PITX2 p.M200V mutation.

Stem Cell Res. 2017 Oct;24:8-11

PMID: 29034898

**This antibody has been successfully used in ICC on Human:**

Cristina Mora, Marialaura Serzanti, Alessio Giacomelli, Valentina Turco, Eleonora Marchina, Valeria Bertini, Giovanna Piovani, Giulia Savio, Lena Refsgaard, Morten Salling Olesen, Venusia Cortellini, Patrizia Dell'Era

Generation of induced pluripotent stem cells (iPSC) from an atrial fibrillation patient carrying a KCNA5 p.D322H mutation

Stem Cell Research 24 (2017) 29-32

PMID: 29034891

**This antibody has been successfully used in IHC on Human:**

Sancho-Martinez I, Nivet E, Xia Y, Hishida T, Aguirre A, Ocampo A, Ma L1, Morey R, Krause MN, Zembrzycki A, Ansorge O5 Vazquez-Ferrer E, Dubova I1. Reddy P, Lam D, Hishida Y, Wu MZ, Esteban CR, O'Leary D, Wahl GM, Verma IM, Laurent LC, Izpisua Belmonte JC

Establishment of human iPSC-based models for the study and targeting of glioma initiating cells

Nat Commun. 2016 Feb 22;7:10743

PMID: 26899176

**This antibody has been successfully used on Human:**

Tolar J, McGrath JA, Xia L, Riddle MJ, Lees CJ, Eide C, Keene DR, Liu L, Osborn MJ, Lund TC, Blazar BR, Wagner JE.

Patient-specific naturally gene-reverted induced pluripotent stem cells in recessive dystrophic epidermolysis bullosa.

J Invest Dermatol. 2014 May;134(5):1246-54.

PMID: 24317394

**This antibody has been successfully used in IF on Human:**

Montserrat N, Ramírez-Bajo MJ, Xia Y, Sancho-Martinez I, Moya-Rull D, Miquel-Serra L, Yang S, Nivet E, Cortina C, González F, Izpisua Belmonte JC, Campistol JM.

Generation of induced pluripotent stem cells from human renal proximal tubular cells with only two transcription factors, oct4 and sox2.

J Biol Chem. 2012 Jul 13;287(29):24131-8.

PMID: 22613719

**This antibody has been successfully used in IHC on Human:**

Vassena R, Montserrat N, Carrasco Canal B, Aran B, de Oñate L, Veiga A, Izpisua Belmonte JC.

Accumulation of instability in serial differentiation and reprogramming of parthenogenetic human cells.

Hum Mol Genet. 2012 Aug 1;21(15):3366-73.

PMID: 22547223

**This antibody has been successfully used in IHC on Pig:**

Montserrat N, de Oñate L, Garreta E, González F, Adamo A, Eguizábal C, Häfner S, Vassena R, Izpisua Belmonte JC.

Generation of feeder-free pig induced pluripotent stem cells without Pou5f1. Cell Transplant. 2012;21(5):815-25.

PMID: 21944493

**This antibody has been successfully used in IF on Human:**

A. Sánchez-Danés, A. Consiglio, Y. Richaud, I. Rodríguez-Pizà, B. Dehay, M. Edel, J. Bové, M. Memo, M. Vila, A. Raya and J.C. Izpisua Belmonte

Efficient Generation of A9 Midbrain Dopaminergic Neurons by Lentiviral Delivery of LMX1A in Human Embryonic Stem Cells and Induced Pluripotent Stem Cells Hum Gene Ther. 2012 Jan; 23(1): 56–69.

PMID: 21877920

**This antibody has been successfully used in IF on Human:**

Eguizabal C, Montserrat N, Vassena R, Barragan M, Garreta E, Garcia-Quevedo L, Vidal F, Giorgetti A, Veiga A, Izpisua Belmonte JC.

Complete meiosis from human induced pluripotent stem cells. Stem Cells. 2011 Aug;29(8):1186-95.

PMID: 21681858

**This antibody has been successfully used in ICC/IF on Human:**

Montserrat N, Garreta E, González F, Gutiérrez J, Eguizábal C, Ramos V, Borrós S, Izpisua Belmonte JC.

Simple generation of human induced pluripotent stem cells using poly-beta-amino esters as the non-viral gene delivery system.

J Biol Chem. 2011 Apr 8;286(14):12417-28.

PMID: 21285354

**This antibody has been successfully used in IF on Pig:**

Montserrat N, Bahima EG, Batlle L, Häfner S, Rodrigues AM, González F, Belmonte JC.

Generation of pig iPS cells: a model for cell therapy.

J Cardiovasc Transl Res. 2011 Apr;4(2):121-30.

PMID: 21088946

**This antibody has been successfully used in ICC/IF on Human:**

Rodríguez-Pizà I, Richaud-Patin Y, Vassena R, González F, Barrero MJ, Veiga A, Raya A, Belmonte JC.

Reprogramming of human fibroblasts to induced pluripotent stem cells under xeno-free conditions.

Stem Cells. 2010 Jan;28(1):36-44.

PMID: 19890879

**This antibody has been successfully used in IF on Human:**

Raya A et.al.

Disease-corrected haematopoietic progenitors from Fanconi anaemia induced pluripotent stem cells.

Nature. 2009 Jul 2;460(7251):53-9.

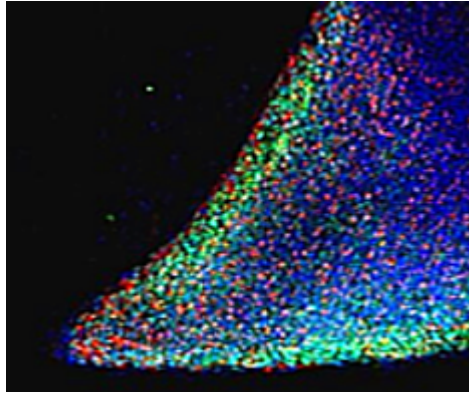
PMID: 19483674

**This antibody has been successfully used in ICC/IF on Human:**

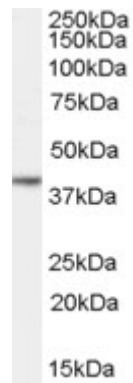
Aasen T, Raya A, Barrero MJ, Garreta E, Consiglio A, Gonzalez F, Vassena R, Bili J, Pekarik V, Tiscornia G, Edel M, Boué S, Izpisua Belmonte JC.

Efficient and rapid generation of induced pluripotent stem cells from human keratinocytes. Nat Biotechnol. 2008 Nov;26(11):1276-84.

PMID: 18931654



EB06860 (5ug/ml) staining (green) parts of a colony of induced pluriform stem cells derived from Human Keratinocytes. Data kindly provided by CMRB, Center of Regenerative Medicine in Barcelona, Spain.



EB06860 (0.03µg/ml) staining of Human Ovary lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.