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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 antibody, Nanog homeobox antibody, HGNC:20857 antibody, homeobox transcription factor Nanog antibody, homeobox transcription factor Nanog-delta 48 antibody

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_079141.1). Recommended concentration: 0.03-0.1µg/ml.

Immunofluorescence: Parts of a keratinocyte-derived colony of induced pluripotent stem cells are stained for Nanog (green). See also publication Raya A. et al., Nature. 2009 Jul 2;460(7251):53-9, PMID: 19483674.

This antibody does not work in PFA-fixed frozen embryos and ESC from Mouse.

Species Reactivity

Tested: Human, Pig

Expected from sequence similarity: Human, Dog

Specific References

This antibody has been successfully used (in IF on Human primary renal proximal tubular epithelial cells) in the following paper:

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 female oocytes) in the following paper:

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 IF on Human induced pluripotent stem cells from keratinocytes) in the following paper:

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 the following paper:

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 the following paper:

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 the following paper:

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

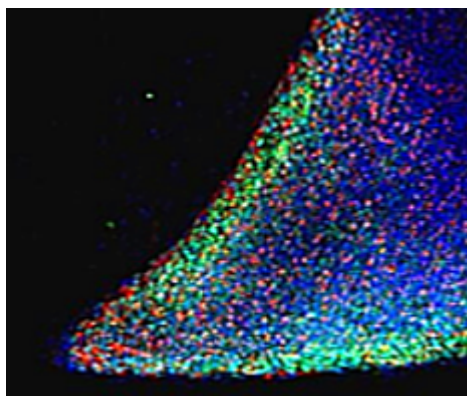
This antibody has been successfully used in the following paper:

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

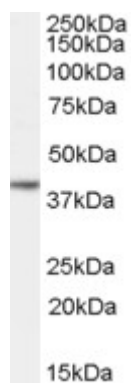
Efficient and rapid generation of induced pluripotent stem cells from human keratinocytes.

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). Primary incubation was 1 hour. Detected by chemiluminescence.