

Nanog P8 Rabbit pAb

CatalogNo: Y2977

Key Features

Host Species

- Rabbit

Reactivity

- Human

Applications

- WB,IF,ELISA,IHC

MW

- 35kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IF/ICC1:50-200

ELISA 1:2000-20000

IHC 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human NANOGP8. AA range:51-100

Specificity Nanog P8 Polyclonal Antibody detects endogenous levels of Nanog P8 protein.

Target Information

Gene name NANOGP8

Protein Name Putative homeobox protein NANOGP8

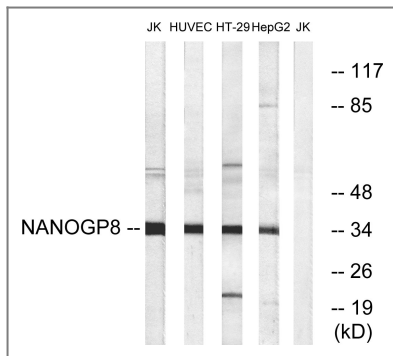
Organism	Gene ID	UniProt ID
Human	388112 ;	Q6NSW7 ;

Cellular Localization Nucleus .

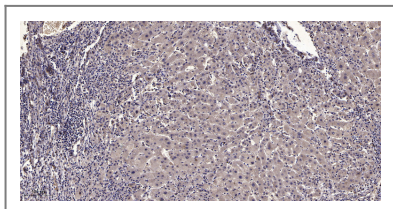
Tissue specificity Embryonic stem cell, Teratocarcinoma, Urinary bladder carcinoma,

Function developmental stage: 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. ., Function: May act as a transcription regulator (By similarity). When overexpressed, promotes cells to enter into S phase and proliferation. ., Function: 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. ., miscellaneous: Almost identical to NANOG. There are only one change in the inferred amino acid sequence from 'Gln-253' in NANOG to His-253 in NANOGP8. ., miscellaneous: Exists an other tandem duplicated non-processed pseudogene (NANOGP1) and 10 other NANOG-related nucleotide sequences located on different chromosomes, all of which are processed pseudogenes lacking introns (NANOGP2 to NANOGP11); except NANOGP8 which is a retrogene. ., online information: Nanog entry, similarity: Belongs to the Nanog homeobox family. ., similarity: Contains 1 homeobox DNA-binding domain. ., subunit: Interacts with SMAD1 and SALL4. ., tissue specificity: Expressed in osteosarcoma cancer cell line (at protein level) (Probable). Expressed in tumor uterine cervix, breast and urinary bladder tissues, and also osteosarcoma, hepatoma, and breast adenocarcinoma cancer cell lines. ., tissue specificity: 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. .

Validation Data



Western blot analysis of lysates from HUVEC, HT-29, HepG2, and Jurkat cells, using NANOGP8 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

Contact information

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Nanog P8 Rabbit pAb

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