

Datasheet for ABIN387791

anti-Nanog antibody

3 Images

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Overview

| | |
|--------------|--|
| Quantity: | 400 µL |
| Target: | Nanog (NANOG) |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This Nanog antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

Product Details

| | |
|---------------|--|
| Immunogen: | This NANOG monoclonal antibody is generated from mouse immunized with NANOG recombinant protein. |
| Clone: | 60CT77-1-1 |
| Isotype: | IgG1 kappa |
| Purification: | This antibody is purified through a protein G column, followed by dialysis against PBS. |

Target Details

| | |
|-------------------|--|
| Target: | Nanog (NANOG) |
| Alternative Name: | NANOG (NANOG Products) |
| Background: | 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- |

Target Details

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 (By similarity).

Molecular Weight: 34620

Gene ID: 79923

NCBI Accession: [NP_079141](#)

UniProt: [Q9H9S0](#)

Pathways: [Stem Cell Maintenance](#)

Application Details

Application Notes: WB: 1:100~250. WB: 1:100~250. IHC-P: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

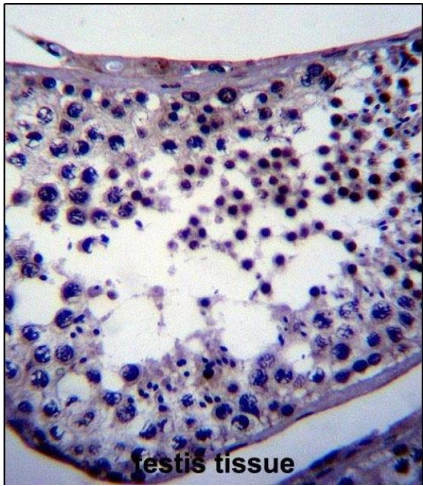
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

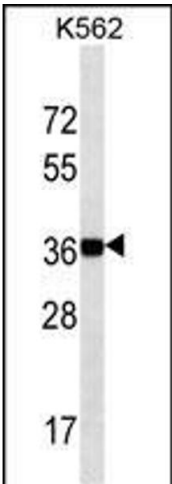
Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months



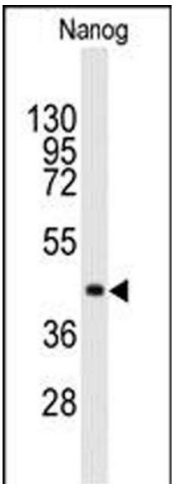
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. NANOG Antibody (ABIN387791 and ABIN2838027) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of NANOG Antibody for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. NANOG (ABIN387791 and ABIN2838027) western blot analysis in K562 cell line lysates (35 µg/lane). This demonstrates the NANOG antibody detected the NANOG protein (arrow).



Western Blotting

Image 3. Western blot analysis of anti-NANOG monoclonal antibody (ABIN387791 and ABIN2838027) by NANOG recombinant protein. NANOG (NANOG + His tag)(arrow) was detected using the Mab.