**German Research Products - GRP GmbH** 

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## **Product Datasheet**

## Nanog Polyclonal Antibody GRP314

**Description** 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. Acts as a transcriptional activator or repressor. Binds optimally to the DNA consensus sequence 5'-TAAT[GT][GT]-3' or 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3'. Able to autorepress its expression in differentiating (ES) cells: binds to its own promoter following interaction with ZNF281/ZFP281, leading to recruitment of the NuRD complex and subsequent repression of expression. When overexpressed, promotes cells to enter into S phase and

proliferation.

Species/Host Rabbit

Reactivity Human, Mouse, Rat

Conjugation Unconjugated

Tested Applications FC, IHC-P, WB

Immunogen KLH conjugated synthetic peptide derived from mouse Nanog

(public\_immunogen\_range: 90-140/305)

Form/Appearance Aqueous buffered solution containing 1% BSA, 50% glycerol and

0.09% sodium azide.

Concentration 1ug/ul

**Storage** Store at -20°C for 12 months.

**Note** For research use only.

**Isotype** IgG

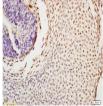
**Clonality** Polyclonal

**Purity** Purified by Protein A.

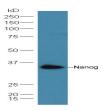
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**Dilution Range** WB: 1:300-1000, FC: 1:20-100, IHC-P: 1:200-400



WB of GRP314



IHC-P of GRP314