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| <b>Cat. No:</b>          | AB-84338  |
| <b>Conjugate:</b>        | Unconjugated  |
| <b>Size:</b>             | 100 ug  |
| <b>Clone:</b>            | POLY  |
| <b>Concentration:</b>    | 1mg/ml  |
| <b>Host:</b>             | Rb  |
| <b>Isotype:</b>          | IgG   |
| <b>Immunogen:</b>        | Nanoghomeobox   |
| <b>Reactivity:</b>       | Hu,Ms   |
| <b>Applications:</b>     | Western Blot: 1:500-1:2000 Immunofluorescence: 1:20-1:200 |
| <b>Molecular Weight:</b> | 43-48 kDa   |
| <b>Purification:</b>     | Aff. Pur. ≥95% as determined by SDS-PAGE                  |

**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-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.

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| <b>Form:</b>    | Liquid   |
| <b>Buffer:</b>  | PBS with 0.02% sodium azide and 50% glycerol pH 7.3          |
| <b>Storage:</b> | T -20°C for 12 months (Avoid repeated freeze / thaw cycles.) |

**For Research use only**  
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