

Datasheet for ABIN6242860
anti-Nanog antibody (AA 155-189)



[Go to Product page](#)

2 Images

Overview

Quantity:	400 µL
Target:	Nanog (NANOG)
Binding Specificity:	AA 155-189
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nanog antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This NANOG antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 155-189 amino acids from the Central region of human NANOG.
Clone:	RB52819
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	Nanog (NANOG)
Alternative Name:	NANOG (NANOG Products)
Background:	Transcription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation

Target Details

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.

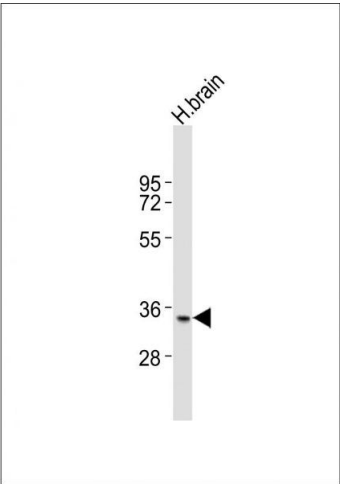
Molecular Weight:	34620
UniProt:	Q9H9S0
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	WB: 1:2000. WB: 1:2000
Restrictions:	For Research Use only

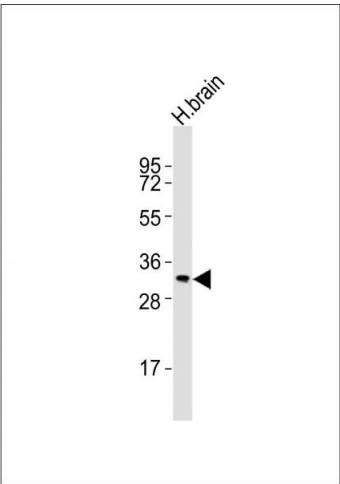
Handling

Format:	Liquid
Buffer:	Purified polyclonal 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
Expiry Date:	6 months



Western Blotting

Image 1. Anti-NANOG Antibody (Center) at 1:2000 dilution + human brain lysates. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 35 kDa. Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 2. Anti-NANOG Antibody (Center) at 1:2000 dilution + human brain lysates. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 35 kDa. Blocking/Dilution buffer: 5 % NFDM/TBST.