

Oct-4 (ANT0030R) Rabbit mAb

CatalogNo: ANT8272 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species

- Rabbit
- Human,Mouse
- WB,IHC,IF,IP,ELISA

Reactivity

Applications

MW

- 39kD (Calculated)
- 45kD (Observed)
- IgG,Kappa

Isotype

Recommended Dilution Ratios

IHC 1:1000-1:5000

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

Storage

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

Basic Information

Clonality Monoclonal

Clone Number ANT0030R

Target Information

Endogenous

Gene name POU5F1
Protein Name POU domain class 5 transcription factor 1

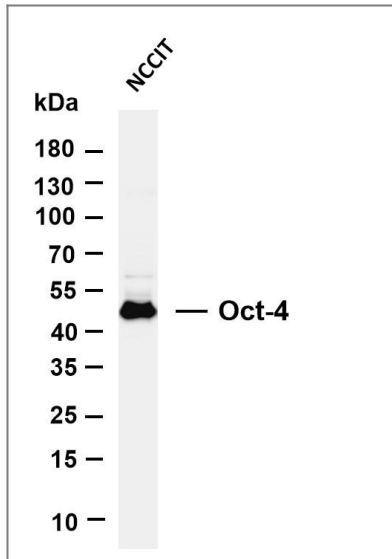
Organism	Gene ID	UniProt ID
Human	5460 ;	Q01860 ;
Mouse	18999 ;	P20263 ;

Cellular Localization Nucleus

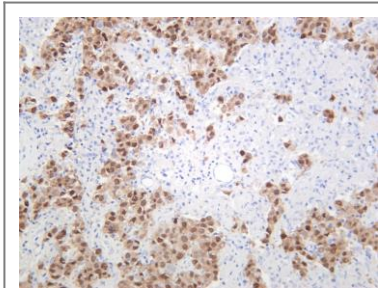
Tissue specificity Expressed in developing brain. Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low levels of expression in adult tissues.

Function Function:Transcription factor that binds to the octamer motif (5'-ATTGTCAT-3'). Forms a trimeric complex with SOX2 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency.,miscellaneous:Several pseudogenes of POU5F1 have been described on chromosomes 1, 3, 8, 10 and 12. 2 of them, localized in chromosomes 8 and 10, are transcribed in cancer tissues but not in normal ones and may be involved in the regulation of POU5F1 gene activity in carcinogenesis.,online information:Oct-4 entry,ANTM:Sumoylation enhances the protein stability, DNA binding and transactivation activity. Sumoylation is required for enhanced YES1 expression.,similarity:Belongs to the POU transcription factor family. Class-5 subfamily.,similarity:Contains 1 homeobox DNA-binding domain.,similarity:Contains 1 POUspecific domain.,subcellular location:Expressed in a diffuse and slightly punctuate pattern.,subunit:Interacts with UBE2I.,tissue specificity:Expressed in developing brain. Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low levels of expression in adult tissues.,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Oct-4 (ANT0030R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: NCCIT Predicted band size: 39kDa
Observed band size:
45kDa



Human seminoma was stained with anti-Oct-4 (ANT0030R) rabbit antibody

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