For Research Use Only

OCT4/POU5F1 Polyclonal antibody

Catalog Number:11263-1-AP Featured Product 351 Publications

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Basic Information

Catalog Number:
11263-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1794

GenBank Accession Number:
BC020712

GeneID (NCBI):
5460

UNIPROT ID:
Q01860

Full Name:
POU class 5 homeobox 1

Calculated MW:
39 kDa

Observed MW:
38 kDa, 50-60 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:5000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB, IP, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, sheep, goat

Positive Controls:

WB : HEK-293 cells, MCF-7 cells, NCCIT cells, MDA-MB-231 cells, mouse brain tissue, U-251 cells, rat brain tissue, mouse embryo tissue

Background Information

Octamer-binding protein 4 (OCT4), also known as POU5F1 or OCT3/4, is a member of the POU gene family and encoded by the human gene POU5F1 (POU domain class 5 transcription factor 1). OCT4 is a member of the Octamer class of transcription factors that recognize the 8-base pair consensus motif 5'-ATGCAAAT-3'. Expression of OCT4 is associated with an undifferentiated, pluripotent stem cell phenotype and tumors. OCT4 is also expressed in the developing brain, with the highest levels found in the cortex, olfactory bulb, and the hippocampus. In the tumor area, Oct4 can also be recognized to be expressed in the cytoplasm (PMID: 30854141).

Notable Publications

Author	Pubmed ID	Journal	Application
Yang Liu	27685621	Cell Death Dis	WB
Chenlong Li	31558707	Cell Death Dis	WB
XIAOYUE FENG	34528694	Oncol Rep	WB

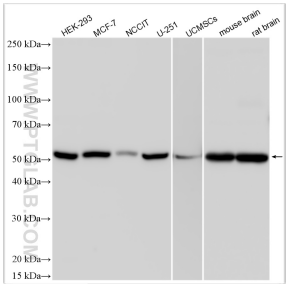
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11263-1-AP (OCT4/POU5F1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.