

For Research Use Only

OCT4 Polyclonal antibody

Catalog Number: 11263-1-AP

Featured Product

134 Publications



Basic Information

Catalog Number:

11263-1-AP

Size:

150ul, Concentration: 750 µg/ml by Nanodrop and 360 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1794

GenBank Accession Number:

BC020712

GeneID (NCBI):

5460

Full Name:

POU class 5 homeobox 1

Calculated MW:

39 kDa

Observed MW:

50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IF 1:50-1:500

Applications

Tested Applications:

IF, WB, ELISA

Cited Applications:

FC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB: H7ES cells, HEK-293 cells, hESC cells, human placenta tissue, mouse brain tissue, mouse embryo tissue, mouse kidney tissue, NCCIT cell

IF: mouse eye 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.

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

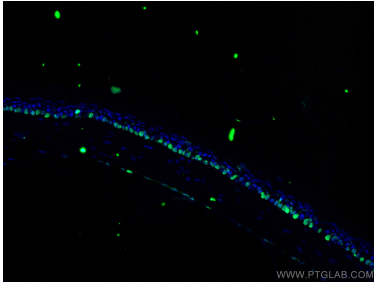
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

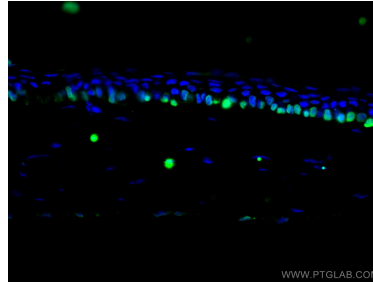
E: proteintech@ptglab.com
W: ptglab.com

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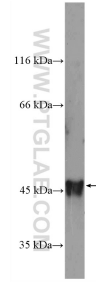
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using OCT4 antibody (11263-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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H7ES cells were subjected to SDS PAGE followed by western blot with 11263-1-AP (OCT4 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.