

## OCT1 Polyclonal Antibody

Catalog number: 10387-1-AP

Size: 35 µg/150 µl

Source: Rabbit

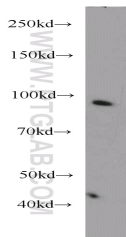
Isotype: IgG

Synonyms:

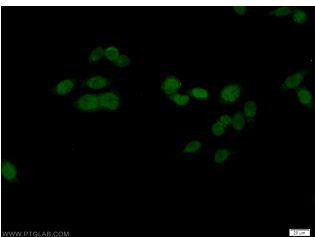
POU2F1; NF A1, Oct 1, OCT1, Octamer binding protein 1, OTF 1, OTF1, POU class 2 homeobox 1, POU2F1



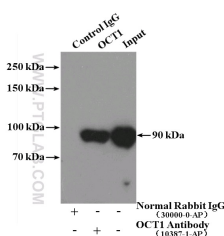
Immunohistochemical of paraffin-embedded human lymphoma using 10387-1-AP (POU2F1 antibody) at dilution of 1:100 (under 25x lens)



HeLa cells were subjected to SDS PAGE followed by western blot with 10387-1-AP (POU2F1 antibody) at dilution of 1:1000



Immunofluorescent analysis of HeLa cells using 10387-1-AP (POU2F1 Antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



### Background

The POU class 2 homeobox 1 (POU2F1), also known as octamer-binding transcription factor-1 (OCT-1), is a ubiquitous nuclear protein that regulates the transcription of target genes by binding to a cis-acting octamer element (5'-ATTGTCAT-3'). It participated in the regulation of housekeeping genes, including histone H2B and snRNAs, for cell differentiation and proliferation [PMID:3462701]. In addition, it functions as a cellular stress sensor that modulates activities of tissue-specific target genes involved in immune and inflammatory responses [PMID:16322220]. It also acts as a repressor for the cytokine-inducible, NF-κB-dependent expression of E-selectin and the vascular cell adhesion molecule during vascular inflammation. Otherwise, it can interact with nuclear hormone receptors, such as the retinoid X receptor, the thyroid hormone receptor and the glucocorticoid receptor, and influence their transcription activity [PMID:17192276].

### Applications

Tested applications:	ELISA, WB, IHC, IF, IP
Cited applications:	ChIP, WB
Species specificity:	Human, Pig; other species not tested.
Cited species:	Mouse, pig
Calculated OCT1 MW:	76 kDa
Observed OCT1 MW:	90 kDa
Positive WB detected in	HeLa cells, HEK-293 cells, NCCIT cell
Positive IP detected in	HeLa cells
Positive IHC detected in	Human lymphoma tissue, human colon cancer tissue
Positive IF detected in	HeLa cells
Recommended dilution:	WB: 1:500-1:5000
	IP: 1:200-1:1000
	IHC: 1:20-1:200
	IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag0586
GenBank accession number:	BC003571
Gene ID (NCBI):	5451
Full name:	POU class 2 homeobox 1

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

**IP Result of anti-POU2F1**  
**(IP:10387-1-AP, 4ug;**  
**Detection:10387-1-AP 1:300)**  
**with HeLa cells lysate 1600ug.**