For Research Use Only

OCT1 Polyclonal antibody

Catalog Number: 10387-1-AP

Featured Product

13 Publications



Basic Information

Catalog Number: 10387-1-AP

GenBank Accession Number:

Purification Method: Antigen affinity purification

Size:

BC003571 GeneID (NCBI):

Recommended Dilutions:

150ul, Concentration: 700 µg/ml by

5451

WB 1:2000-1:12000 IP 0.5-4.0 ug for IP and 1:200-1:1000

Nanodrop and 333 $\mu g/ml$ by Bradford Full Name: method using BSA as the standard;

POU class 2 homeobox 1

for WB

Rabbit

Calculated MW:

Observed MW:

76 kDa

90 kDa

IHC 1:50-1:500 IF 1:10-1:100

Isotype: IgG

AG0586

Immunogen Catalog Number:

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

ChIP, IF, WB

Species Specificity:

human

Cited Species:

human, rat, mouse, pig

Positive Controls:

WB: HEK-293 cells, NCCIT cells, HeLa cells, HepG2

cells

IP: HeLa cells,

IHC: human colon cancer tissue, human lymphoma

tissue

IF: HeLa cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate

buffer pH 6.0

Background Information

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'-ATTTGCAT-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-kB-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].

Notable Publications

Author	Pubmed ID	Journal	Application
Erina Minato	31758567	Microbiol Immunol	WB
Elisa Närvä	35677646	iScience	WB
Ni Zeng	29604329	Mol Cell Endocrinol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

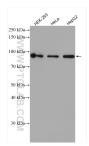
Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

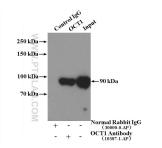
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

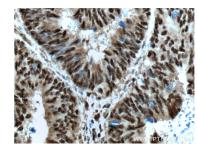
Selected Validation Data



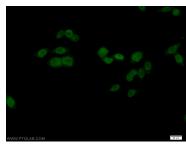
Various lysates were subjected to SDS PAGE followed by western blot with 10387-1-AP (OCT1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



IP Result of anti-OCT1 (IP:10387-1-AP, 4ug; Detection:10387-1-AP 1:300) with HeLa cells lysate 1600ug.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 10387-1-AP (OCT1 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HeLa cells using 10387-1-AP (OCT1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).