

For Research Use Only

# OCT1 Recombinant antibody

Catalog Number: 85726-1-RR



## Basic Information

<b>Catalog Number:</b> 85726-1-RR	<b>GenBank Accession Number:</b> BC003571	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5451	<b>CloneNo.:</b> 243074D12
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P14859	<b>Recommended Dilutions:</b> WB: 1:2000-1:10000 IHC: 1:300-1:1200 IF/ICC: 1:400-1:1600
<b>Isotype:</b> IgG	<b>Full Name:</b> POU class 2 homeobox 1	
<b>Immunogen Catalog Number:</b> AG0586	<b>Calculated MW:</b> 76 kDa	
	<b>Observed MW:</b> 90 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** A431 cells, HepG2 cells, HeLa cells, NCCIT cells, HEK-293 cells

**IHC :** human colon cancer tissue,

**IF/ICC :** HeLa cells,

## 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'-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].

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

**Aliquoting is unnecessary for -20°C storage**

**\*\*\* 20ul sizes contain 0.1% BSA**

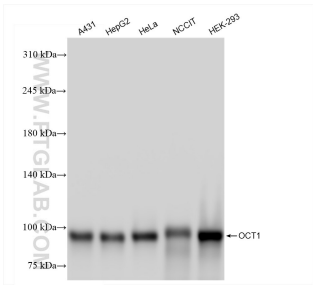
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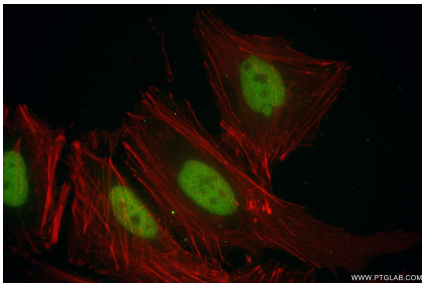
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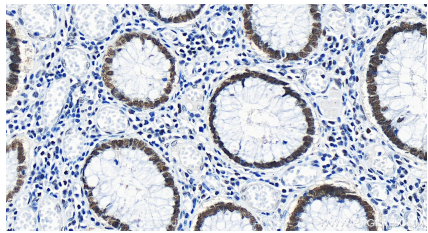
Selected Validation Data



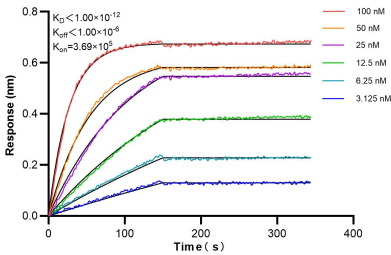
Various lysates were subjected to SDS PAGE followed by western blot with 85726-1-RR (OCT1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using OCT1 antibody (85726-1-RR, Clone: 243074D12 ) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 85726-1-RR (OCT1 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 85726-1-RR against Human OCT1 were performed. The affinity constant is below 1 pM.