

Rabbit OCT1 Polyclonal Antibody | anti-OCT1 antibody

OCT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326319	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

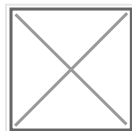
PRODUCT SYNONYMS

OCT1; Polyclonal Antibody; OCT1 Antibody; FLJ42836; NF A1; NF-A1; Oct 1; Oct 1B; Oct-1; Octamer binding protein 1; Octamer binding transcription factor 1; Octamer-binding protein 1; Octamer-binding transcription factor 1; OTF 1; OTF-1; OTF1; OTTHUMP00000032348; OTTHUMP00000032350; OTTHUMP00000032351; PO21; PO2F1; PO2F1_HUMAN; POU class 2 homeobox 1; POU domain class 2 transcription factor 1; POU domain; class 2; transcription factor 1; POU2F1; anti-OCT1 antibody

PRODUCT SPECIFICATIONS

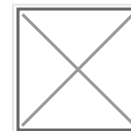
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	POU2F1 antibody detects endogenous levels of total POU2F1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	755
Applicable Applications for anti-OCT1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human POU2F1
Subcellular Location	Nucleus.
Tissue Specificity	Ubiquitous. Isoform 2 is lymphocyte-specific.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts of HeLa, using OCT1 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA326319 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA326319 at 1/100 staining Mouse colon tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-OCT1 antibody	Description: Oct-1 (POU2F1) is a ubiquitously expressed, octamer-binding transcription factor containing a POU domain with a homeobox subdomain (1). Oct-1 has been shown to interact with several transcription factors in mediating specific gene expression, including SNAPc (2), OBF-1 (a B-cell transcriptional coactivator protein) (3), TFIIIB (4), and TBP (TATA-box-binding protein) (5). Its POU DNA-binding domain allows Oct-1 the flexibility to facilitate the binding and recruitment of several tissue-specific cofactors to either positively or negatively regulate a variety of genes, exerting an important role in development (6). Function: Transcription factor that binds to the octamer motif (5'-ATTGTCAT-3') and activates the promoters of the genes for some small nuclear RNAs (snRNA) and of genes such as those for histone H2B and immunoglobulins. Modulates transcription transactivation by NR3C1, AR and PGR (By similarity). In case of human herpes simplex virus (HSV) infection, POU2F1 forms a multiprotein-DNA complex with the viral transactivator protein VP16 and HCFC1 thereby enabling the transcription of the viral immediate early genes. Subunit Structure: Interacts with NR3C1, AR, PGR and HCFC1. Associates with the herpes simplex virus VP16-induced complex; binding to HCFC1 activates the viral transcriptional activator VP16 for association with POU2F1, to form a multiprotein-DNA complex responsible for activating transcription of the viral immediate early genes. Post-translational Modifications: Phosphorylated by PRKDC. Similarity: Belongs to the POU transcription factor family. Class-2 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	311771667
NCBI GeneID	5451
NCBI Accession #	NP_001185712.1
NCBI GenBank Nucleotide #	NM_001198783.1
UniProt Accession #	P14859; Q5TBT7; Q6PK46; Q8NEU9; Q9BPV1; B1AL91; B1AL93; B4E029; J3KP77
Molecular Weight	Observed: 76 kDa Predicted: 77 kDa
NCBI Official Full Name	POU domain, class 2, transcription factor 1 isoform 2
NCBI Official Synonym Full Names	POU class 2 homeobox 1
NCBI Official Symbol	POU2F1
NCBI Official Synonym Symbols	OCT1; OTF1; oct-1B
NCBI Protein Information	POU domain, class 2, transcription factor 1
UniProt Protein Name	POU domain, class 2, transcription factor 1
UniProt Gene Name	POU2F1
UniProt Synonym Gene Names	OCT1; OTF1; Oct-1; OTF-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.