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OCT2 Rabbit pAb

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Catalog # AP94593

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q00196
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49439
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse OCT2
Epitope Specificity	11-100/463
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nuclear
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Oct2 is a transcription factor that specifically binds to the octamer motif (5'-ATTTGCAT-3'). Oct2 regulates transcription in a number of tissues in addition to activating immunoglobulin gene expression. It also modulates transcription transactivation by NR3C1, AR and PGR. Oct2 is B cell specific, belongs to the POU transcription factor family class 2 subfamily and contains 1 homeobox domain.

Additional Information

Gene ID	18987
Other Names	POU domain, class 2, transcription factor 2, Lymphoid-restricted immunoglobulin octamer-binding protein NF-A2, Octamer-binding protein 2, Oct-2, Octamer-binding transcription factor 2, OTF-2, Pou2f2 {ECO:0000312|MGI:MGI:101897}, Oct2, Otf2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Pou2f2 {ECO:0000312|MGI:MGI:101897}
Synonyms	Oct2, Otf2
Function	Transcription factor that specifically binds to the octamer motif (5'-ATTTGCAT-3') (PubMed:1281152, PubMed:2011512). Regulates IL6 expression in B cells with POU2AF1 (PubMed:23045607). Regulates transcription in a number of tissues in addition to activating immunoglobulin gene expression. Modulates transcription transactivation by NR3C1, AR and PGR.
Cellular Location	Cytoplasm. Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000255|PROSITE- ProRule:PRU00530, ECO:0000269|PubMed:17285328}. Note=In alveolus epithelial cells of mammary glands, present in the nucleus and cytoplasm. In HC11 mammary epithelial cells, present in the nucleus and preinuclear regions
Tissue Location	Highest in B cells, but also present in brain (neuronal and glial cells), intestine, kidney, and testes [Isoform OCT2.2]: Expressed in neuronal cell lines and brain, but not dorsal root ganglia. [Isoform OCT2.4]: Expressed in neuronal cell lines, and at lower levels in neuroblastoma and dorsal root ganglia [Isoform OCT2.6]: Either absent in, or expressed at very low levels in neuronal cells and brain

Background

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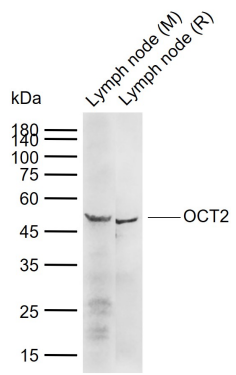
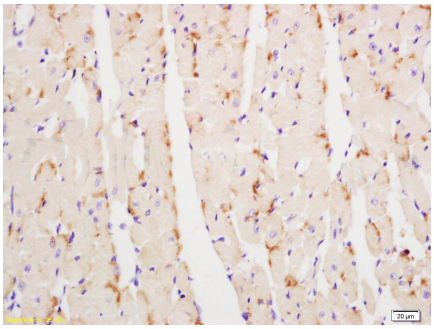
Images



Sample:
Lane 1: Mouse Lymph node tissue lysates
Lane 2: Rat Lymph node tissue lysates
Primary: Anti-OCT2 (AP94593) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 51 kDa
Observed band size: 51 kDa



Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-OCT2 Polyclonal Antibody, Unconjugated(AP94593) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining