

OCT2 Rabbit pAb

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Catalog # AP94593

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q00196
Reactivity	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
SIMILARITY	Belongs to the POU transcription factor family. Class-2 subfamily. Contains 1 homeobox DNA-binding domain. Contains 1 POU-specific domain.
SUBUNIT	Interacts with NR3C1, AR and PGR.
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'-ATTGTCAT-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
Target/Specificity	Isoform 3 is B-cell specific. Isoform 5 is expressed in B-cells and the immunoglobulin-expressing T-cell line Molt-4, but not in the T-cell line BW 5147.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

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.
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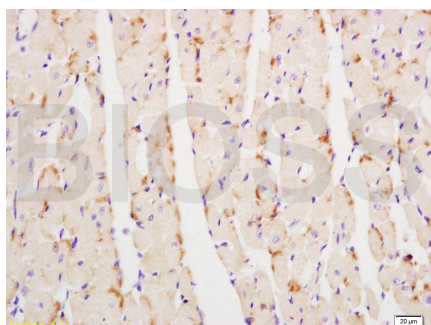
Protein Information

Name	Pou2f2 {ECO:0000312 MGI:MGI:101897}
Synonyms	Oct2, Otf2
Function	Transcription factor that specifically binds to the octamer motif (5'-ATTGTCAT-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

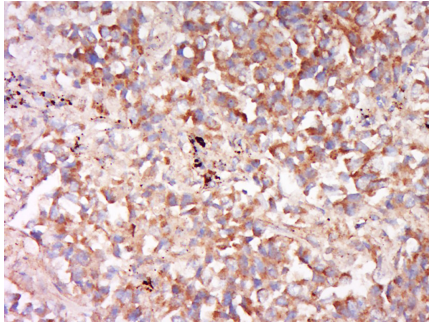
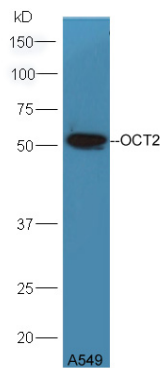
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Images

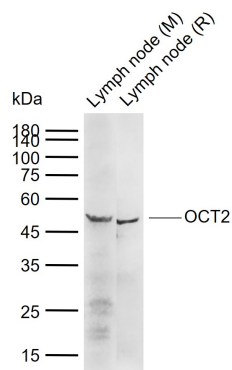


Tissue/cell: mouse heart tissue; 4%
Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-OCT2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

Sample: A549 Cell lysate at 30 ug; Primary: Anti-OCT2 (AP94593) at 1:300 dilution; Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G) at 1: 3000 dilution; Predicted band size : 51 kD Observed band size : 51 kD



Tissue/cell: human lung carcinoma; 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°C for 20 min; Incubation: Anti-OCT2 Polyclonal Antibody, Unconjugated(AP94593) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.