

Oct-3/Oct-4 Rabbit pAb

Catalog Number: bs-1111R

Target Protein: Oct-3/Oct-4

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1ug/Test)

Reactivity: Human, Mouse, Rat (predicted:Pig, Cow, Dog)

Predicted MW: 39 kDa

Entrez Gene: 5460

Swiss Prot: Q01860

Source: KLH conjugated synthetic peptide derived from human OCT4: 201-300/360.

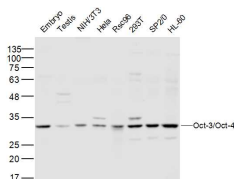
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

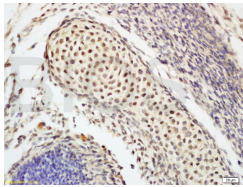
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a transcription factor containing a POU homeodomain. This transcription factor plays a role in embryonic development, especially during early embryogenesis, and it is necessary for embryonic stem cell pluripotency. A translocation of this gene with the Ewing's sarcoma gene, t(6;22)(p21;q12), has been linked to tumor formation. Alternative splicing, as well as usage of alternative translation initiation codons, results in multiple isoforms, one of which initiates at a non-AUG (CUG) start codon. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12. [provided by RefSeq].

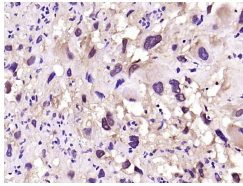
VALIDATION IMAGES



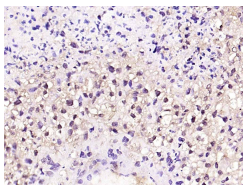
Sample: Embryo (Mouse) Lysate at 40 ug Testis (Mouse) Lysate at 40 ug NIH/3T3 (Mouse) Cell Lysate at 40 ug HeLa (Human) Cell Lysate at 40 ug Rsc96 (Rat) Cell Lysate at 40 ug 293T (Human) Cell Lysate at 40 ug SP2/0 (Mouse) Cell Lysate at 40 ug HL-60 (Human) Cell Lysate at 40 ug Primary: Anti-Oct-3/Oct-4 (bs-1111R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 39 kD Observed band size: 39 kD



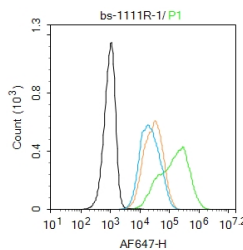
Tissue/cell: mouse tooth germ tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Oct-3/Oct-4 Polyclonal Antibody, Unconjugated (bs-1111R) 1:100, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat placenta); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Oct-3) Polyclonal Antibody, Unconjugated (bs-1111R) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse placenta); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Oct-3) Polyclonal Antibody, Unconjugated (bs-1111R) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) (sp-0023) instructions and DAB staining.



Blank control: Hela. Primary Antibody (green line): Rabbit Anti-Oct-3 antibody (bs-1111R) Dilution: 1 µg / 10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-AF647 Dilution: 1 µg / test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[IF=18.952] Mahmoud Labib et al. Tracking the expression of therapeutic protein targets in rare cells by antibody-mediated nanoparticle labelling and magnetic sorting. *Nat Biomed Eng*. 2020 Jul 27. FCM ; Human . 32719513

[IF=4.626] Jiaming Fu. et al. mTORC1 coordinates NF-κB signaling pathway to promote chondrogenic differentiation of tendon cells in heterotopic ossification. *BONE*. 2022 Oct;163:116507 IF ; Mouse . 35908648

[IF=2.705] Wang EX et al. Stem cells from trabecular meshwork cells can secrete extracellular matrix. *Biochem Biophys Res Commun*. 2020 Mar 5;523(2):522-526. ICC ; cattle . 31902587

[IF=3.082] Ya Fang Wu et al. Growth and Stem Cell Characteristics of Tendon-Derived Cells with Different Initial Seeding Densities: An In Vitro Study in Mouse Flexor Tendon Cells. *Stem Cells Dev*. 2020 Aug 1;29(15):1016-1025. ICC ; mouse . 32443957

[IF=1.706] Shan et al. Wnt/β-catenin pathway is required for epithelial to mesenchymal transition in CXCL12 over expressed breast cancer cells. (2016) *Int.J.Clin.Exp.Pathol*. 8:12357-67 WB ; Human . 26722422