

OCT4 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Non-human primate, Rat
Published Species	Bovine
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide between amino acids 100-200 of the human OCT4 protein.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2268556

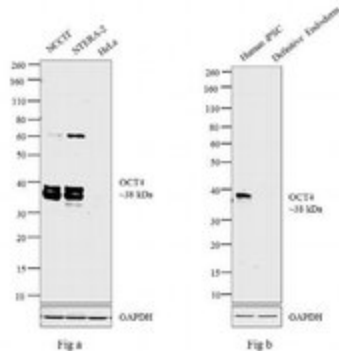
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	2 Publications
Immunocytochemistry (ICC/IF)	1:50-1:200	1 Publication
Flow Cytometry (Flow)	1:50-1:200	1 Publication

Product Specific Information

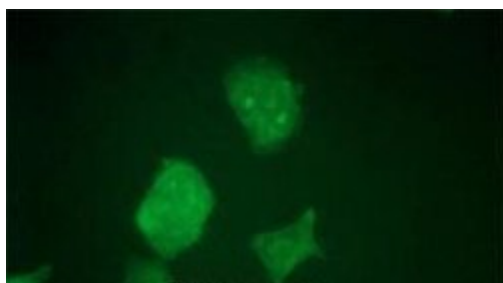
This antibody is expected to react with swine, feline and bovine samples based on a 93% sequence homology.

OCT4 Antibody (PA1-16943)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Western blot analysis using OCT4 Polyclonal antibody (Product # PA1-16943) showed expression of OCT4 in NTERA-2, NCCIT (Fig. a) and Human iPSC (Fig. b) but not in HeLa (Fig. a) and Human iPSC derived definitive endoderm (Fig. b) which are reported to be negative for OCT4 expression. Relative expression validation info.



Product Images For OCT4 Polyclonal Antibody

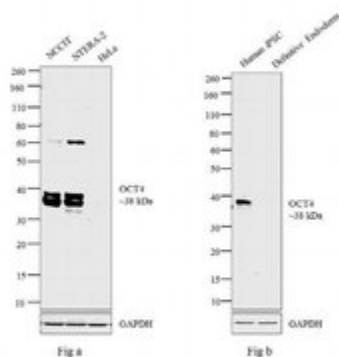


OCT4 Antibody (PA1-16943) in ICC/IF

OCT4 staining in NTERA-2 cells detected with a Dylight 488 labeled secondary antibody.

OCT4 Antibody (PA1-16943) in WB

Western blot analysis was performed on modified whole cell extracts (1% SDS) (30 µg lysate) of (Fig. a) NCCIT (Lane 1), NTERA-2 (Lane 2) and HeLa (Lane 3), (Fig. b) Human iPSCs (Lane 1) and Human iPSCs derived definitive endoderm (Lane 2). The blot was probed with Anti- OCT4 Polyclonal Antibody (Product # PA1-16943, 1: 1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/ml, 1:4000 dilution). A 38 kDa band corresponding to OCT4 was observed across the cell lines tested except for HeLa (Fig. a) and human iPSC derived definitive endoderm (Fig. b) which is reported to be negative for OCT4 expression.



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Western Blot (2)

Carcinogenesis

FXR-Gankyrin axis is involved in development of pediatric liver cancer.

"Published figure using OCT4 polyclonal antibody (Product # PA1-16943) in Western Blot"

Authors: Valanejad L, Lewis K, Wright M, Jiang Y, D'Souza A, Karns R, Sheridan R, Gupta A, Bove K, Witte D, Geller J, Tiao G, Nelson DL, Timchenko L, Timchenko N

Species
Not Applicable

Dilution
Not Cited

Year
2017

Reproduction in domestic animals = Zuchthygiene

The endometrium of cycling cows contains populations of putative mesenchymal progenitor cells.

"PA1-16943 was used in western blot to study the potential existence of mesenchymal progenitor cells in cow endometrium"

Authors: Cabezas J, Lara E, Pacha P, Rojas D, Veraguas D, Saravia F, Rodríguez-Alvarez L, Castro FO

Species
Bovine

Dilution
Not Cited

Year
2014

Immunocytochemistry (1)

Animal reproduction

Characterization of mesenchymal stem cells derived from adipose tissue of a cougar (*Puma concolor*).

"Published figure using OCT4 polyclonal antibody (Product # PA1-16943) in Immunocytochemistry"

Authors: Echeverry DM, Asenjo PA, Rojas DM, Aguilera CJ, Rodríguez-Álvarez L, Castro FO

Species
Not Applicable

Dilution
Not Cited

Year
2020

Flow Cytometry (1)

American journal of translational research

Whether CD44 is an applicable marker for glioma stem cells.

"PA1-16943 was used in Flow cytometry/Cell sorting to indicate that the CD44 low-expressing cells exhibit more GSCs straits, suggesting that CD44 is not an appropriate marker for GSCs."

Authors: Wang HH, Liao CC, Chow NH, Huang LL, Chuang JI, Wei KC, Shin JW

Species
Not Applicable

Dilution
1:100

Year
2020

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