

OCT4 Recombinant Polyclonal Antibody (3HCLC)

Product Details

Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Class	Recombinant Polyclonal
Type	Antibody
Clone	3HCLC
Conjugate	Unconjugated
Immunogen	Peptide corresponding to Human POU5F1 (aa 280-291)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2633097

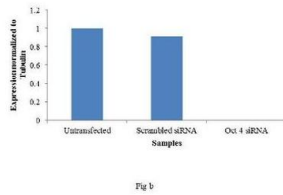
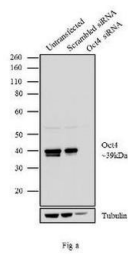
Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	-
Immunocytochemistry (ICC/IF)	2 µg/mL	-
ChIP assay (ChIP)	2.5 µg x 10 ⁶ cells	-

Product Specific Information

This antibody is predicted to react with Monkey, Goat, Cat and Horse

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For OCT4 Recombinant Polyclonal Antibody (3HCLC)

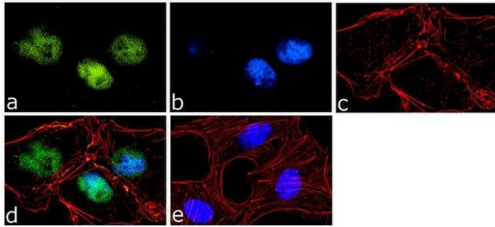


OCT4 Antibody (710788)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. NTERA-2 cells were transfected with OCT4 siRNA and loss of signal was observed in Western blot using Anti-OCT4 Recombinant Rabbit Polyclonal Antibody (Product # 710788). {KD}

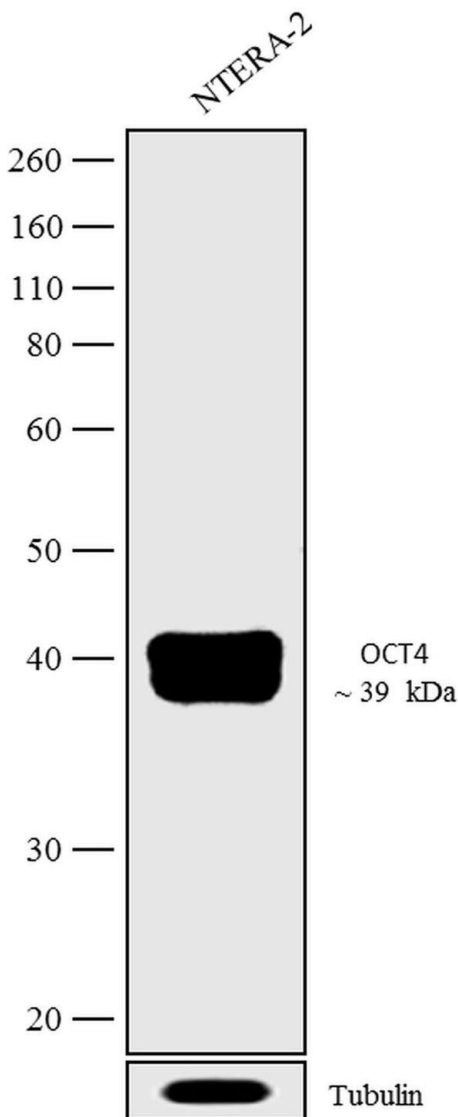
OCT4 Antibody (710788) in ICC/IF

For immunofluorescence analysis, NTERA-2 cells were fixed and permeabilized for detection of endogenous OCT4 using Anti-OCT4 Recombinant Rabbit Polyclonal Antibody (Product # 710788, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of OCT4 protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating nuclear localization of OCT4. Panel e) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



OCT4 Antibody (710788) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of NTERA-2 (Lane 1). The blots were probed with Anti-OCT4 Recombinant Rabbit Polyclonal Antibody (Product # 710788, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 39 kDa band corresponding to OCT4 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



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