

Product Datasheet

OCT4 Antibody (486) - Azide and BSA Free NBP2-15052

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Updated 2/23/2025 v.20.1

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NBP2-15052

OCT4 Antibody (486) - Azide and BSA Free

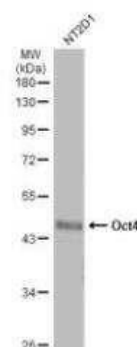
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	486
Preservative	No Preservative
Isotype	IgG2a
Purity	Antigen Affinity-purified
Buffer	PBS
Target Molecular Weight	45 kDa

Product Description	
Host	Mouse
Gene ID	5460
Gene Symbol	POU5F1
Species	Human, Mouse, Rabbit
Reactivity Notes	Feline (89%), Porcine (88%),Bovine (85%). Rabbit reactivity reported from a verified customer review.
Marker	Embryonic Stem Cell Marker
Immunogen	Recombinant protein encompassing a sequence within the center region of human OCT4. The exact sequence is proprietary.

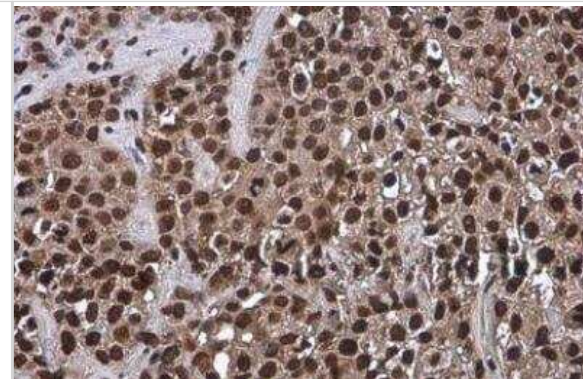
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:3000, Flow Cytometry 1:50-1:200, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:1000-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000

Images

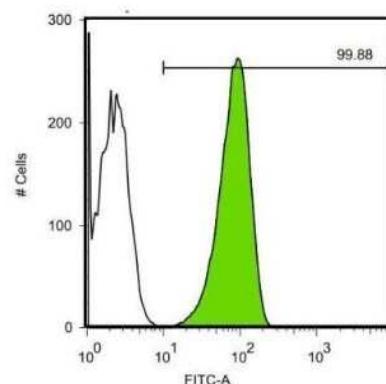
Western Blot: OCT4 Antibody (486) [NBP2-15052] - Whole cell extract (30 ug) was separated by 10% SDS-PAGE, and the membrane was blotted with Oct4 antibody [GT486] diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.



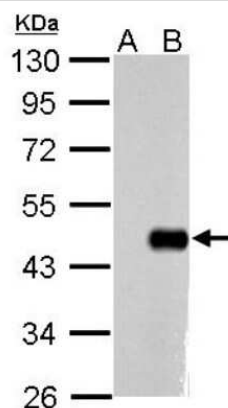
Immunohistochemistry-Paraffin: OCT4 Antibody (486) [NBP2-15052] - Paraffin-embedded human cervical carcinoma. Oct4 stained by Oct4 antibody [GT486] diluted at 1:200. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



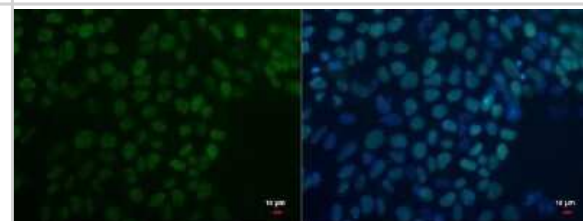
Flow Cytometry: OCT4 Antibody (486) [NBP2-15052] - Human embryonic stem cells Black: Isotype control dilution: 1:50 Green: Oct4 antibody dilution: 1:50



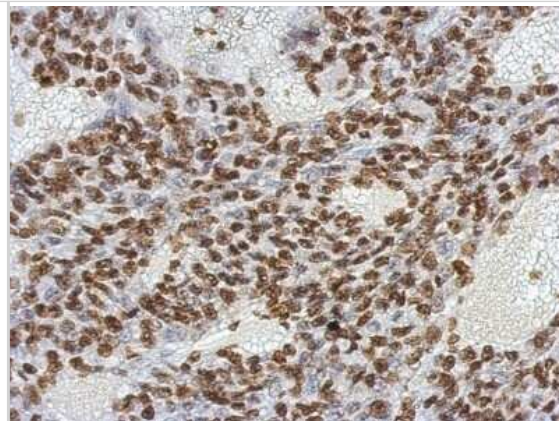
Western Blot: OCT4 Antibody (486) [NBP2-15052] - Sample (10 ug of whole cell lysate) A: Non-transfected HeLa lysates B: HeLa transfected recombinant OCT3/4 protein 10% SDS PAGE; antibody diluted at 1:1000.



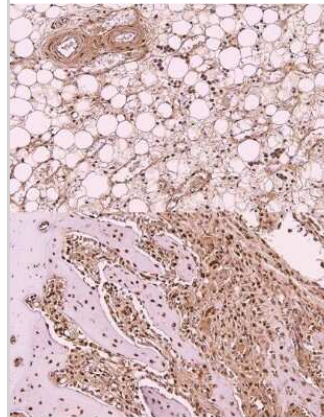
Immunocytochemistry/Immunofluorescence: OCT4 Antibody (486) [NBP2-15052] - Human embryonic stem cell were fixed in 4% Paraformaldehyde for 15 min. Green: Oct4 protein stained by Oct4 antibody diluted at 1:200. Blue: Hoechst 33342 staining. Scale bar = 10 um.



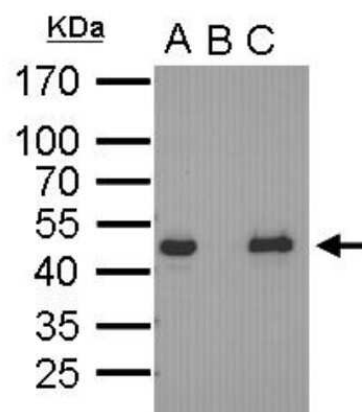
Immunohistochemistry-Paraffin: OCT4 Antibody (486) [NBP2-15052] - BT483 xenograft, using OCT3/4 antibody at 1:200 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



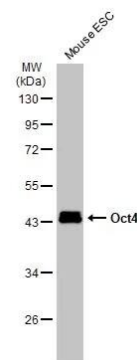
Immunohistochemistry-Paraffin: OCT4 Antibody (486) [NBP2-15052] - Imaging of Rabbit stem cells in Bone marrow of tibia. This image was submitted via customer Review.



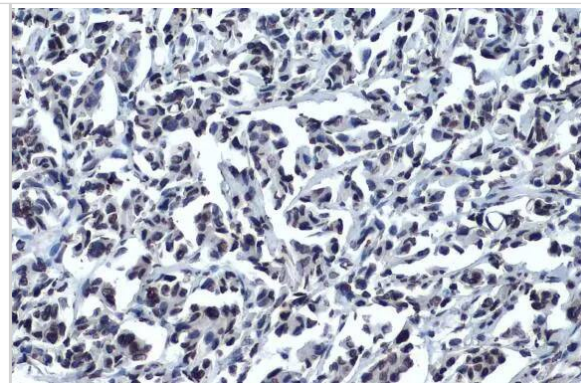
Immunoprecipitation: OCT4 Antibody (486) [NBP2-15052] - Sample: cell lysate/extract of OCT4 gene transfected 293T cells A. Cell lysate/extract of transfected 293T cell, B. Control with 2 ug of preimmune mouse IgG, C. Immunoprecipitation of OCT4 by 2 ug of OCT4 antibody 12% SDS-PAGE gel.



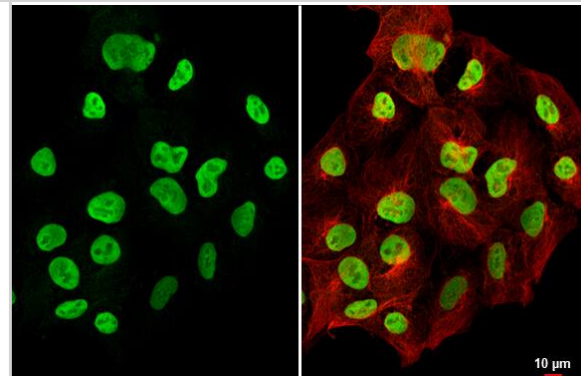
Western Blot: OCT4 Antibody (486) [NBP2-15052] - Mouse embryonic stem cell extract (50 ug) was separated by 10% SDS-PAGE, and the membrane was blotted with Oct4 antibody [GT486] (NBP2-15052) diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.



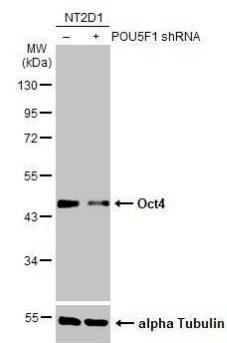
Immunohistochemistry-Paraffin: OCT4 Antibody (486) [NBP2-15052] - Oct4 antibody [GT486] detects Oct4 protein at nucleus by immunohistochemical analysis. Sample: Paraffin-embedded human breast carcinoma. Oct4 stained by Oct4 antibody [GT486] (NBP2-15052) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Immunocytochemistry/ Immunofluorescence: OCT4 Antibody (486) [NBP2-15052] - Oct4 antibody [GT486] detects Oct4 protein at nucleus by immunofluorescent analysis. Sample: NT2D1 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Oct4 stained by Oct4 antibody [GT486] (NBP2-15052) diluted at 1:500. Red: beta Tubulin, a cytoskeleton marker, stained by beta Tubulin antibody diluted at 1:1000.



Western Blot: OCT4 Antibody (486) [NBP2-15052] - Non-transfected (-) and transfected (+) NT2D1 whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with Oct4 antibody [GT486] diluted at 1:120000. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.



Publications

R Chimienti, T Baccega, S Torchio, F Manenti, S Pellegrini, A Cospito, A Amabile, MT Lombardo, P Monti, V Sordi, A Lombardo, M Malnati, L Piemonti Engineering of immune checkpoints B7-H3 and CD155 enhances immune compatibility of MHC-I-/- iPSCs for beta cell replacement Cell Reports, 2022-09-27;40(13):111423. 2022-09-27 [PMID: 36170817]



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-15052

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)
NB100-2379PEP	OCT4 Antibody Blocking Peptide

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