

Product Datasheet

POU3F3 Antibody NBP1-49872

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NBP1-49872

POU3F3 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

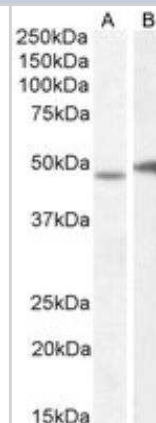
Product Description	
Description	Novus Biologicals Goat POU3F3 Antibody (NBP1-49872) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-POU3F3 Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	5455
Gene Symbol	POU3F3
Species	Mouse
Immunogen	Peptide with sequence C-HMLSHAHQWVTAL corresponding to internal region according to NP_006227.1.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Peptide ELISA
Recommended Dilutions	Western Blot 1 - 3 ug/mL, Flow Cytometry 10 ug/mL, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Immunohistochemistry-Frozen, Peptide ELISA Detection limit 1:4000
Application Notes	IHC-Fr reactivity reported in (PMID: 25273085). IHC reactivity reported in (PMID: 25224226).

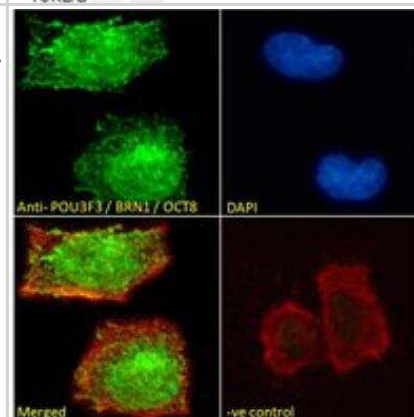


Images

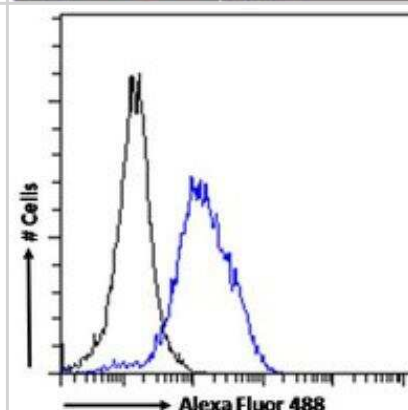
Western Blot: POU3F3 Antibody [NBP1-49872] - Staining of Mouse Spinal Cord (A) and Brain (B) lysate (35 ug protein in RIPA buffer). Antibody at 1 ug/mL. Detected by chemiluminescence.



Immunocytochemistry/Immunofluorescence: POU3F3 Antibody [NBP1-49872] - Immunofluorescence analysis of paraformaldehyde fixed Neuro-2a cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



Flow Cytometry: POU3F3 Antibody [NBP1-49872] - Flow cytometric analysis of paraformaldehyde fixed Neuro-2a cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Publications

Schnell, J;Miao, Z;Achieng, M;Fausto, CC;Koppitch, K;Takhirov, L;Wang, V;De Kuyper, F;Huang, B;Schreiber, M;Medina, P;Thornton, ME;Grubbs, B;Li, Z;Kim, J;Lindström, NO; Controlling nephron precursor differentiation to generate proximal-biased kidney organoids with emerging maturity *Nature communications* 2025-08-30 [PMID: 40885711]

Salamon I, Park Y, Mi□ki? T et al. Celf4 controls mRNA translation underlying synaptic development in the prenatal mammalian neocortex *Nat Commun* 2023-09-27 [PMID: 37758766]

Lindstrom NO, Sealfon R, Chen X et al. Spatial Transcriptional Mapping of the Human Nephrogenic Program *Dev Cell* 2021-08-24 [PMID: 34428401]

Zahr SK, Yang G, Kazan H, A Translational Repression Complex in Developing Mammalian Neural Stem Cells that Regulates Neuronal Specificat ion. *Neuron*. 2018-02-07 [PMID: 29395907]

Iva Salamon, Geeta Palsule, Xiaobing Luo, Alfonso Roque, Shawn Tucai, Ishan Khosla, Nicole Volk, Wendy Liu, Huijuan Cui, Valentina Dal Pozzo, Petronio Zalamea, Xinfu Jiao, Gabriella D'Arcangelo, Ronald P Hart, Mladen-Roko Rasin, Megerditch Kiledjian mRNA-Decapping Associated DcpS Enzyme Controls Critical Steps of Neuronal Development. *Cerebral cortex (New York, N.Y. : 1991)* 2022-04-05 [PMID: 34467373]

Abhay P. S. Rathore, Wilfried A. A. Saron, Ting Lim, Nusrat Jahan, Ashley L. St. John Maternal immunity and antibodies to dengue virus promote infection and Zika virus–induced microcephaly in fetuses *Science Advances* 2019 -02-01 [PMID: 30820456]

Braun S, Petrova R, Tang J et al. The npBAF to nBAF Chromatin Switch Regulates Cell Cycle Exit in the Developing Mammalian Cortex *Genes Dev* 2021-02-19 [PMID: 33602870]

Boitnott A, Ung D, Garcia-Forn M, et al. Developmental and behavioral phenotypes in a new mouse model of DDX3X syndrome *Biol Psychiatry* 2021-08-04 [PMID: 34344536]

Castro DS, Skowronska-Krawczyk D, Armant O et al. Proneural bHLH and Brn proteins coregulate a neurogenic program through cooperative binding to a conserved DNA motif. *Dev Cell* 2006-12-01 [PMID: 17141158]

Ka M, Condorelli G, Woodgett JR, Kim WY. mTOR regulates brain morphogenesis by mediating GSK3 signaling. *Development*. 2014-11-01 [PMID: 25273085] (IHC-Fr, Mouse)

Details:
POU3F3 / Brn1 antibody used for IHC of brain sections from control and mTorloxP/loxP; Nestin-cre mice at E15.5 stage (Fig. 5A)

Ka M, Jung EM, Mueller U, Kim WY. MACF1 regulates the migration of pyramidal neurons via microtubule dynamics and GSK-3 signaling. *Dev. Biol.* 2014-09-16 [PMID: 25224226] (IF/IHC, Mouse)



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Products Related to NBP1-49872

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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