Product Datasheet

FoxP2 Antibody - BSA Free

NBP1-86671

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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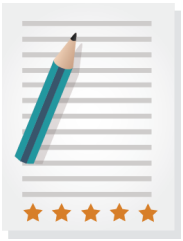
Publications: 5

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-86671

Updated 9/9/2025 v.20.1



NBP1-86671

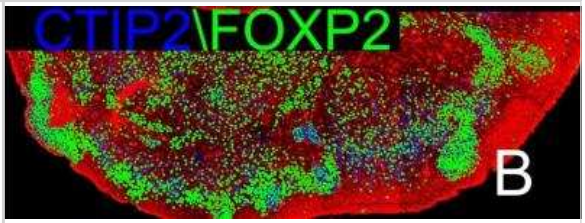
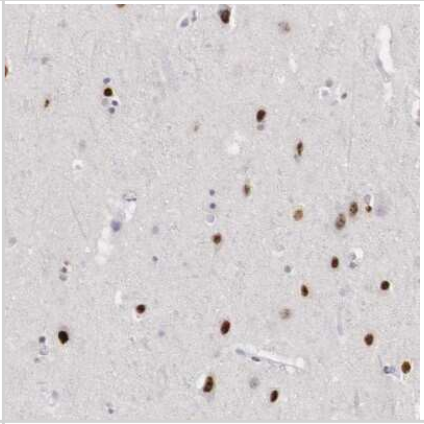
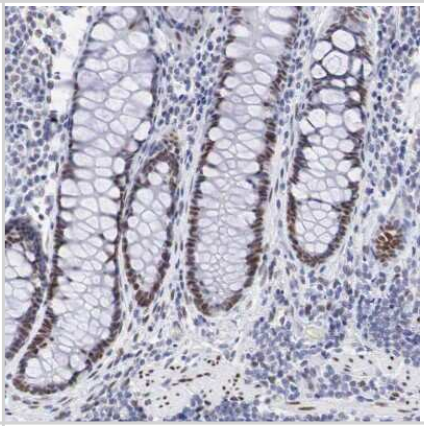
FoxP2 Antibody - BSA Free

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	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

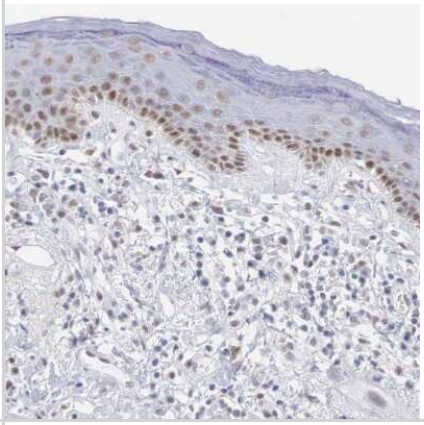
Product Description	
Description	Novus Biologicals Rabbit FoxP2 Antibody - BSA Free (NBP1-86671) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-FoxP2 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	93986
Gene Symbol	FOXP2
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 25926446). Mouse reactivity reported in scientific literature (PMID: 26407299).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: AQQLVFQQQLLQMQQLQQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPA EIQQLWKEVTGVHSMEDNGIKHGGLDLTTNNSSSTTSSNTSKASPPITHHS

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence Reported in scientific literature (PMID: 25926446 and 25926446)., Immunohistochemistry-Paraffin 1:200-1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

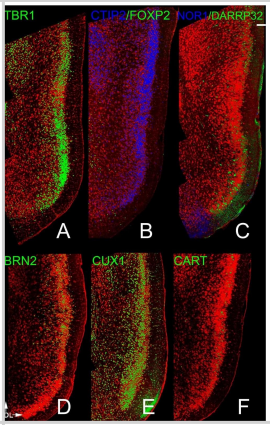
Images

FoxP2-Antibody-Immunohistochemistry-NBP1-86671-img0009.jpg	
Immunohistochemistry-Paraffin: FoxP2 Antibody [NBP1-86671] - Staining of human cerebral cortex shows moderate to strong nuclear positivity in neurons.	
Immunohistochemistry-Paraffin: FoxP2 Antibody [NBP1-86671] - Staining of human rectum shows moderate nuclear positivity in glandular cells.	
Immunohistochemistry-Paraffin: FoxP2 Antibody [NBP1-86671] - Staining of human skeletal muscle shows no positivity in striated muscle fibers as expected.	

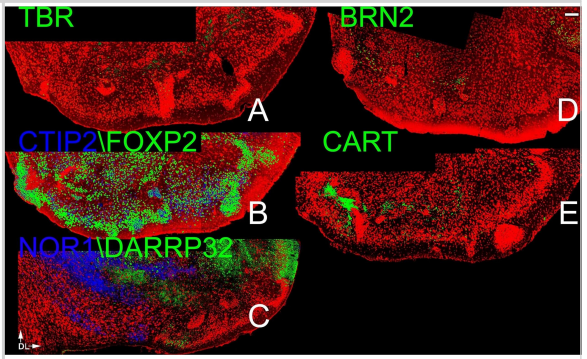
Immunohistochemistry-Paraffin: FoxP2 Antibody [NBP1-86671] - Staining of human skin shows moderate nuclear positivity in deep epidermal cells.



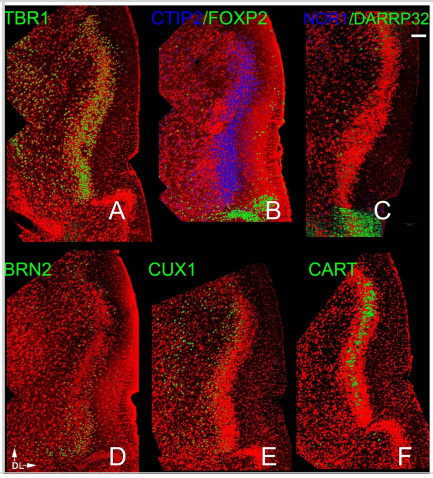
Immunocytochemistry/ Immunofluorescence: FoxP2 Antibody [NBP1-86671] - Patterns of neocortical layer markers in the PPC.A) TBR-1 heavily labeled cells in Layer 2 as well as scattered cells in Layer 3. As in the APC many cells in layers 2 & 3 exhibited the deep marker CTIP2 (B). Only widely scattered cells exhibited FOXP2 & DAARP 32 & NOR1 (B,C). The other three makers exhibited very different patterns: CUX 1 staining (E) was strong throughout layers 2 & 3, BRN2 staining much more modest in the same regions, CART was restricted to the middle of layer 2 (F). Scale bar = 200µm. Dorsal to top, lateral to right. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0138541), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



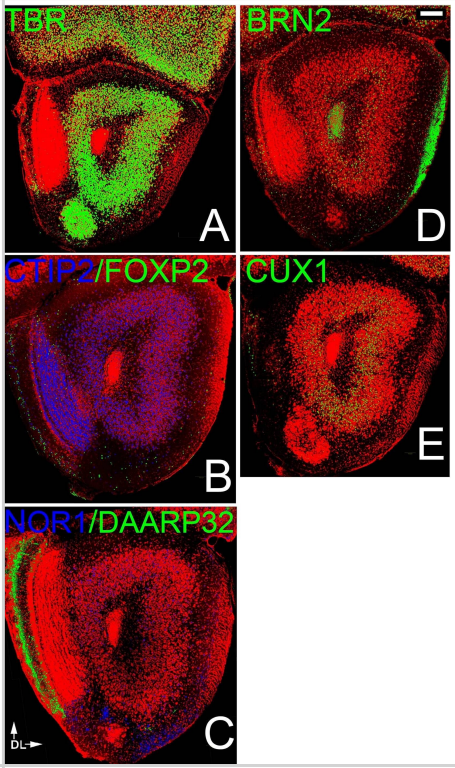
Immunocytochemistry/ Immunofluorescence: FoxP2 Antibody [NBP1-86671] - Patterns of neocortical layer markers in the OT.A) TBR-1 (A), BRN2 (D) & CART (E) were only found scattered in the very deepest regions of the OT. All four of the deep laminar markers heavily labeled the region. Both CTIP2 & FOXP2 cells were broadly present in Layer 2 & scattered in Layer 3 (Fig 6b). On the medial side most FOXP2 cells coexpressed CTIP2 but the percentage of cells with both markers was reduced laterally. DARRP-32 cells were dense on the lateral side near the APC & in deep regions of the OT, while NOR1 cells were found in Layer 2 in the medial OT (Fig 6c). Scale bar = 200µm. Dorsal to top, lateral to right. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0138541), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



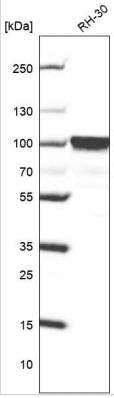
Immunocytochemistry/ Immunofluorescence: FoxP2 Antibody [NBP1-86671] - Patterns of neocortical layer markers in the APC.A) TBR-1 heavily labeled cells in Layer 2 as well as scattered cells in Layer 3. Of the 4 deep layer markers (B,C), only CTIP2 exhibited dense staining. The other three (FOXP2, NOR1 & DAARP32) labeled sparse number in Layers 1–3. The dense staining for FOXP2 & DAARP32 seen at the bottom of the figures sharply demarcates the APC from the more ventral OT. The other three makers exhibited very different patterns: BRN2 staining was found more in the ventral APC (D), CUX 1 in the deeper portions of both Layer 2 & 3 (E), & CART in the middle of Layer 2(F). Scale bar = 200µm. Dorsal to top, lateral to right. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0138541), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: FoxP2 Antibody [NBP1-86671] - Patterns of neocortical layer markers in the AONpP.A). TBR1-labelled cells were found throughout Layer 2 of the AONpP as well as in the tenia tecta & mitral cell layer of the OB. B, C) Deep markers were differentially distributed in the region. Layer 2 exhibited dense & evenly-spread CTIP2-positive cells (Fig 3b), while NOR1 was found primarily in the dorsal portion of the structure (Fig 3c, top) Cells expressing the other two marker were rare & found primarily in layer 1: DARRP-32 (note dense staining in the glomerular layer of the OB at left, an area containing large numbers of dopaminergic interneurons, Fig 3c; Liu et al, 2013) & FOXP2 (most often found near the OB, Fig 3b). CTIP2 stained cells were also found in layer 1 but never in cells that expressed one of the other markers. The superficial markers were also differentially distributed. Both BRN2 (Fig 3d) & CUX1 (Fig 3e) were observed primarily in deep cells (except in pars medialis, where CUX1-labeled cells spanned the entire region) with highest densities in the region under the LOT (pars lateralis). All CUX1 cells also expressed BRN2, & over 90% of CUX1 & BRN2 cells also expressed CTIP2. The anti-BRN2 antibody also labeled the LOT (right) & RMS (core of the olfactory peduncle). Scale bar = 200µm. Dorsal to top, lateral to right. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0138541), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Analysis in human cell line RH-30.



Publications

Aquiles A, Fiordelisio T, Luna-Munguia H, Concha L. Altered functional connectivity and network excitability in a model of cortical dysplasia Scientific Reports 2023-07-30 [PMID: 37518675]

Brunjes PC, Osterberg SK, et al. Developmental Markers Expressed in Neocortical Layers Are Differentially Exhibited in Olfactory Cortex. PLoS One 2015-01-01 [PMID: 26407299] (IF/IHC, Mouse)

Abdi A, Mallet N, Mohamed FY et al. Prototypic and Arkypallidal Neurons in the Dopamine-Intact External Globus Pallidus. J Neurosci 2015-04-29 [PMID: 25926446] (ICC/IF, Rat)

Reimers-Kipping S, Hevers W, Paabo S et al. Humanized Foxp2 specifically affects cortico-basal ganglia circuits. Neuroscience 2011-02-01 [PMID: 21111790]

Enard W, Gehre S, Hammerschmidt K et al. A humanized version of Foxp2 affects cortico-basal ganglia circuits in mice. Cell 2009-05-01 [PMID: 19490899]

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