

Product Datasheet

Neural Stem Cell Marker Antibody Pack NBP1-42826

Unit Size: 7 Vials

Store at 4C. Do not freeze.

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NBP1-42826**Neural Stem Cell Marker Antibody Pack****Product Information**

Unit Size	7 Vials
Concentration	Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.
Storage	Store at 4C. Do not freeze.
Preservative	0.02% Sodium Azide
Purity	Immunogen affinity purified

Product Description

Description	This pack contains 1 vial each of: MAB1195 (100 ug), NB110-37235 (0.1 mL), NBP1-05197 (0.1 mL), NB100-2322 (0.1 mL), and NB300-266 (0.1 mL).
Species	Human, Mouse, Rat
Reactivity Notes	See individual datasheets of components for their validated species
Specificity/Sensitivity	NB100-2322: HMGB1 - Oligodendrocyte Marker NB110-37235: SOX2 - Embryonic Stem Cell Marker MAB1195: Neuron-specific beta-III Tubulin MAb (Clone TuJ-1) NBP1-05197: GFAP - Astrocyte Marker NB300-266: Nestin - Cytoskeleton-Intermediate Filaments Marker
Immunogen	See individual datasheets.
Kit Components	NB300-266: Nestin Antibody (10C2) - BSA Free, NB100-2322: HMGB1/HMG-1 Antibody - BSA Free, NBP1-05197: GFAP Antibody (5C10) - BSA Free, NB110-37235: SOX2 Antibody - BSA Free, MAB1195: beta-III Tubulin Antibody (TuJ-1) [Unconjugated] - Neuron-Specific, HAF007: Goat anti-Mouse IgG Secondary Antibody [HRP], HAF008: Goat anti-Rabbit IgG Secondary Antibody [HRP]

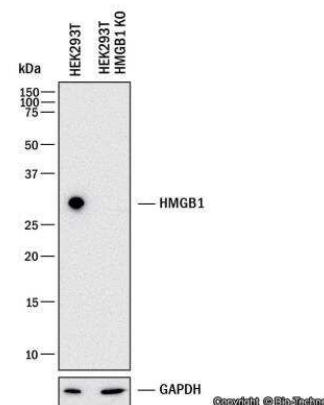
Product Application Details

Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	See individual datasheets of components for their validated applications. NB100-2322 - A band is seen at ~29 kDa in Western Blotting. NB110-37235 - a band is seen at ~40 kDa in Western Blotting, representing the SOX2 protein. NBP1-05197 - Can be used to identify astrocytic cells, their progenitors and their descendents in tissue sections and in tissue culture. The epitope recognized by 5C10 is unusually resistant to aldehyde fixation, and so is ideal of studies of formalin-fixed paraffin-embedded histological specimens. A 55 kDa band can be seen in Western blotting. NB300-266 - a doublet band is seen at ~220-240 kDa in Western Blotting.

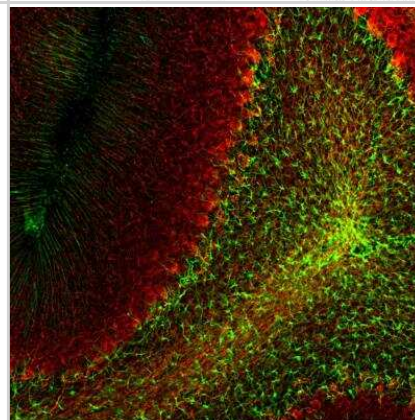


Images

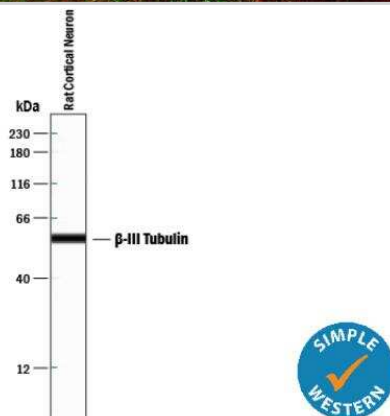
Western Blot: Neural Stem Cell Marker Antibody Pack [NBP1-42826] - Western blot shows lysates of HEK293T human embryonic kidney parental cell line and HMGB1 knockout (KO) HEK293T cell line. PVDF membrane was probed with 1.0 ug/ml of Rabbit Anti-Human HMGB1 Polyclonal Antibody (Catalog # NB100-2322) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for HMGB1 at approximately 30 kDa (as indicated) in the parental HEK293T cell line, but is not detectable in the knockout HEK293T cell line. This experiment was conducted under reducing conditions.



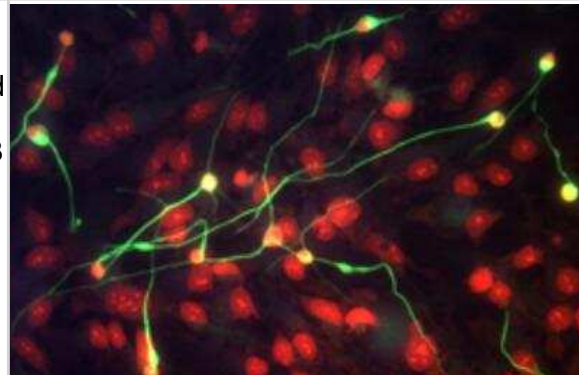
Immunohistochemistry Free-Floating: Neural Stem Cell Marker Antibody Pack [NBP1-42826] - Analysis of rat cerebellum section stained with mouse GFAP mAb (NBP1-05197), dilution 1:1,000 (Green), costained with rabbit neurofilament NF-L pAb, dilution 1:2,000 (Red). Following transcardial perfusion with 4% paraformaldehyde, brain was post fixed for 24hrs, cut to 45uM, and free-floating sections were stained with antibodies. The GFAP antibody stains a network of astroglial cells, while the NF-L antibody labels neuronal cells and their processes.



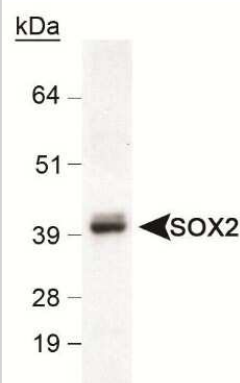
Simple Western: Neural Stem Cell Marker Antibody Pack [NBP1-42826] - Simple Western lane view shows lysates of rat cortical neurons, loaded at 0.2 mg/mL. A specific band was detected for beta -III Tubulin at approximately 56 kDa (as indicated) using 10 ug/mL of Mouse Anti-Neuron-specific beta -III Tubulin Monoclonal Antibody (Catalog # MAB1195). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



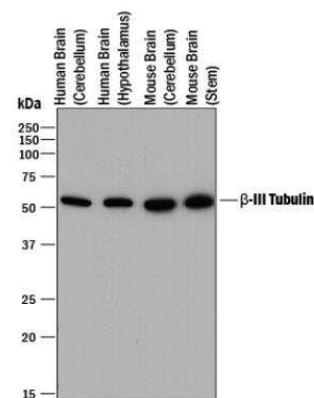
Immunocytochemistry/Immunofluorescence: Neural Stem Cell Marker Antibody Pack [NBP1-42826] - beta -III Tubulin in Differentiated Human Neural Progenitor Cells. beta -III Tubulin was detected in immersion fixed differentiated human neural progenitor cells using Neuron-specific beta -III Tubulin Monoclonal Antibody (clone TuJ-1) (Catalog # MAB1195) for 3 hours at room temperature. Cells were stained (green) and counterstained (red). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.



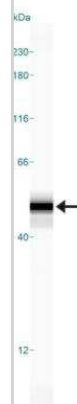
Western Blot: Neural Stem Cell Marker Antibody Pack [NBP1-42826] - Detection of SOX2 in mouse brain lysate using NB110-37235 (0.5ug/ml).



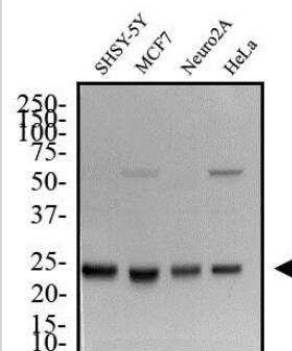
Western Blot: Neural Stem Cell Marker Antibody Pack [NBP1-42826] - Western blot shows lysates of human brain (cerebellum) tissue, human brain (hypothalamus) tissue, mouse brain (cerebellum) tissue, and mouse brain (stem) tissue. PVDF membrane was probed with 0.2 ug/mL of Mouse Anti-Neuron-specific beta -III Tubulin Monoclonal Antibody (Catalog # MAB1195) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for beta -III Tubulin at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Simple Western: Neural Stem Cell Marker Antibody Pack [NBP1-42826] - Simple Western lane view shows a specific band for GFAP in 0.05 mg/ml of Human Brain lysate using NBP1-05197. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Neural Stem Cell Marker Antibody Pack [NBP1-42826] - Total protein from SHSY-5Y, MCF7, Neuro2A and HeLa was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/mL anti-HMGB1 [NB100-2322] in 1% non-fat milk in TBST and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.





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Limitations

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