

# Product Datasheet

## Nav1.7 Antibody (N68/6) - BSA Free NBP2-12904

Unit Size: 0.1 mg

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

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**NBP2-12904**

Nav1.7 Antibody (N68/6) - BSA Free

Product Information	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	N68/6
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS (pH 7.4), 50% Glycerol
Product Description	
<b>Description</b>	Novus Biologicals Mouse Nav1.7 Antibody (N68/6) - BSA Free (NBP2-12904) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-Nav1.7 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	6335
<b>Gene Symbol</b>	SCN9A
<b>Species</b>	Human, Mouse, Rat, Hamster
<b>Specificity/Sensitivity</b>	Detects approx 230kDa. No cross-reactivity against other Nav channels.
<b>Immunogen</b>	Fusion protein amino acids 1751-1946 (C-terminus) of human Nav1.7
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Microarray
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/Immunofluorescence 1:100, Immunoprecipitation, Immunohistochemistry-Paraffin 1:1000, Immunohistochemistry-Frozen, Microarray
<b>Application Notes</b>	1 ug/ml of Nav1.7 Antibody was sufficient for detection of Nav1.7 in 10 ug of HEK-293 cell lysate transiently expressing Nav1.7 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary Antibody.

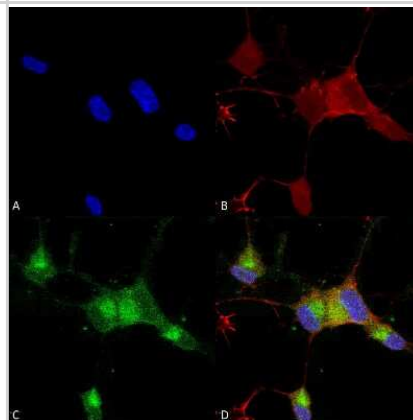


## Images

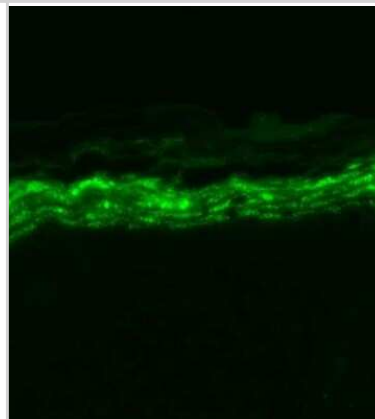
Western Blot: Nav1.7 Antibody (N68/6) [NBP2-12904] - Western Blot analysis of Hamster CHO cells showing detection of Nav1.7 Sodium Channel protein using Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody, Clone N68/6 (NBP2-12904). Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody (NBP2-12904) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



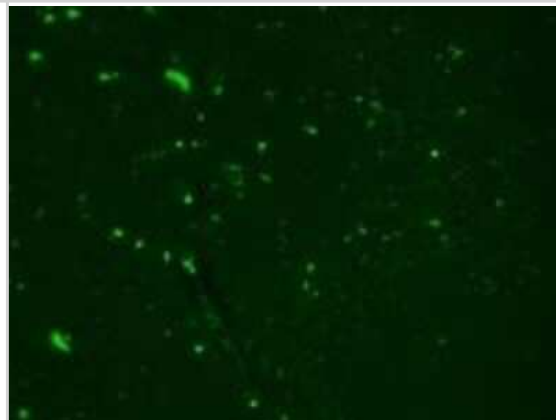
Immunocytochemistry/Immunofluorescence: Nav1.7 Antibody (N68/6) [NBP2-12904] - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Nav1.7 Monoclonal Antibody, Clone N68/6 (NBP2-12904). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-Nav1.7 Monoclonal Antibody (NBP2-12904) at 1:100 for overnight at 4C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Nav1.7 Antibody (D) Composite.



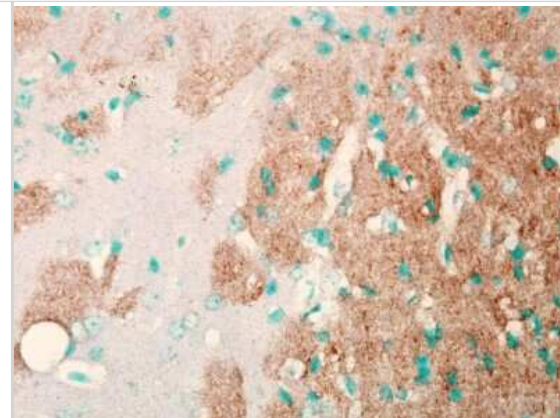
Immunohistochemistry: Nav1.7 Antibody (N68/6) [NBP2-12904] - Immunohistochemistry analysis using Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody, Clone N68/6 (NBP2-12904). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody (NBP2-12904) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



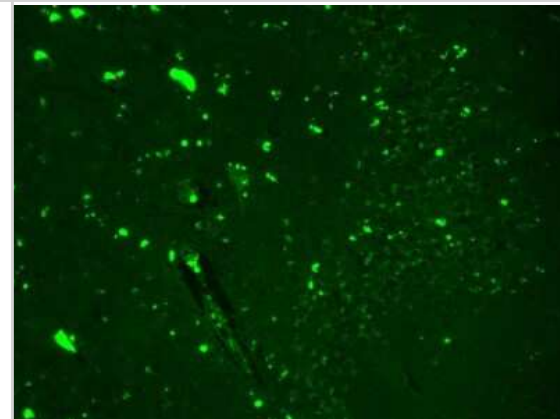
Immunocytochemistry/Immunofluorescence: Nav1.7 Antibody (N68/6) [NBP2-12904] - Human hippocampal sections using this antibody.



Immunohistochemistry: Nav1.7 Antibody (N68/6) [NBP2-12904] - Immunohistochemistry analysis using Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody, Clone N68/6 (NBP2-12904). Tissue: Brain Slice. Species: Mouse. Fixation: Frozen sections. Primary Antibody: Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody (NBP2-12904) at 1:1000. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown). Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain.



Immunohistochemistry: Nav1.7 Antibody (N68/6) [NBP2-12904] - Immunohistochemistry analysis using Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody, Clone N68/6 (NBP2-12904). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody (NBP2-12904) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



## Publications

Hiranuma, M;Okuda, Y;Fujii, Y;Richard, JP;Watanabe, T; Characterization of human iPSC-derived sensory neurons and their functional assessment using multi electrode array Scientific reports 2024-03-12 [PMID: 38472288]

Antico O, Ordureau A, Stevens M Et al. Global ubiquitylation analysis of mitochondria in primary neurons identifies endogenous Parkin targets following activation of PINK1 Science advances 2021-11-12 [PMID: 34767452] (WB, Mouse)



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### **Products Related to NBP2-12904**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **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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