

Product Datasheet

Nav1.8 Antibody (APC) (orb148840)

Catalog Number	orb148840
Category	Antibodies
Description	Mouse monoclonal to Nav1 (APC). 8. Nav1. 8 is a voltage-gated sodium channel and plays a critical role in the generation and conduction of action potentials and is thus important for electrical signaling by most excitable cells. Therapeutically, the association of pain insensitivity with the loss of function of a certain sodium channel may have implications. Since Nav1. 8 is not present in cardiac muscle or neurons in the central nervous system, blockers of Nav1. 8 will not have direct action on these cells and thus can have less side effects than current pain medications. By performing more studies, there is a possibility to develop a new generation of drugs that can reduce the pain intensity in animals..
Target	Nav1.8
Clonality	Recombinant
Species/Host	Mouse
Isotype	IgG2a
Conjugation	APC
Reactivity	Human, Monkey, Mouse, Rat
Concentration	1 mg/ml
Buffer/Preservatives	95.46mM Phosphate, 2.48mM MES and 2mM EDTA
Purification	Protein G Purified
Immunogen	Fusion protein amino acids 1724-1956 of rat Nav1.8
UniProt ID	Q62968

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

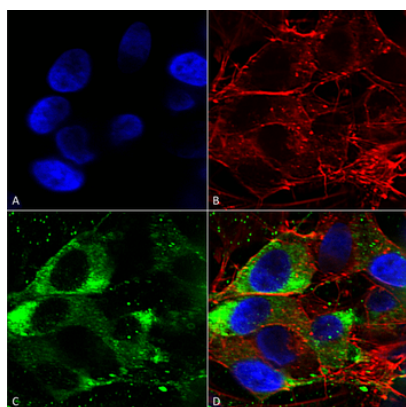
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

MW	220kDa
Tested applications	AM, ICC, IF, IHC, WB
Dilution range	WB (1:1000), IHC (1:1000), ICC/IF (1:100)
Application notes	1 µg/ml of SMC-342 was sufficient for detection of Nav1.8 in 10 µg of COS cell lysate transiently expressing Nav1.8 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Specificity	Detects ~220kDa. No cross reactivity against other Nav channels.
Antibody Type	Recombinant Antibody
Clone Number	S134
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Entrez	29571
NCBI	NP_058943.1
Expiration Date	12 months from date of receipt.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Nav1.8 Monoclonal Antibody, Clone S134. Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-Nav1.8 Monoclonal Antibody at 1:50 for overnight at 4°C 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) Nav1.8 Antibody (D) Composite.

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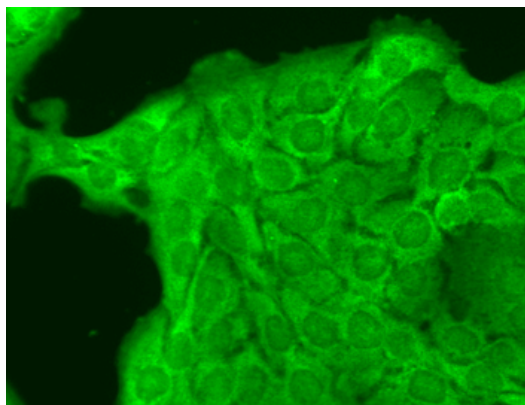
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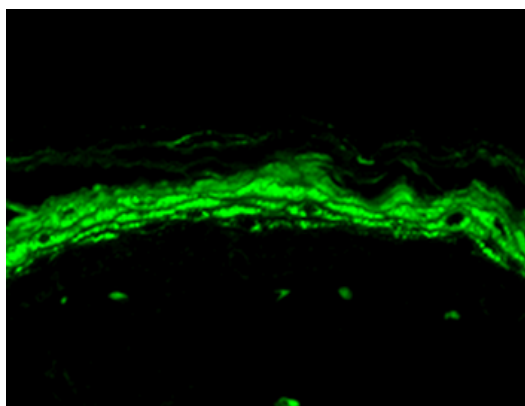
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Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Nav1.8 Monoclonal Antibody, Clone S134. Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-Nav1.8 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Cytoplasmic staining and some dull nuclear staining.



Immunohistochemistry analysis using Mouse Anti-Nav1.8 Monoclonal Antibody, Clone S134. Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Nav1.8 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Heavy filaggrin-like staining, lower epidermal cells have some staining.

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