Anti-nNav 1.5 [4G8:1G7]

Catalogue number: 151409
Sub-type: Primary antibody
Images:

Contributor

Inventor: Caroline Foxton
Institute: Cancer Research Technology
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-nNav 1.5 [4G8:1G7]

Alternate name:

Class: Monoclonal
Conjugate: Unconjugated
Description: Voltage-gated sodium channesl (VGSCs) mediate regenerative cell membrane depolarization and conduction of electrical signalling in nerves and muscles. They have also been detected in lymphocytes, glia, and fibroblasts. VGSC proteins are comprised of a core alpha-subunit, together with one or more additional regulatoy beta-subunit. VCSC expression has been detected in a number of tumour cell lines and has been implicated in the metastatic behaviour of breast and prostate cancer cells. Na(v)1.5, the major cardiac voltage-gated Na(+) channel, plays a central role in the generation of the cardiac action potential and in the propagation of electrical impulses in the heart. Its importance for normal heart function has been recently exemplified by reports of numerous mutations found in the gene SCN5A which encodes Na(v)1.5.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype: IgM
Reactivity: Human
Selectivity:
Host: Mouse
Immunogen: Peptide (14mer) from an extracellular domain of Nav1.5 - VSENIKLGNLSALR
Immunogen UNIPROT ID:
Sequence:

Growth properties:
Production details:
Formulation:
Recommended controls: Cell lines over expressing Nav1.5, e.g Nav 1.5-HEK293 cells
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Neonatal Nav1.5 (Voltage gated Sodium Channel Nav1.5)

Target alternate names:

Target background: Voltage-gated sodium channesl (VGSCs) mediate regenerative cell membrane depolarization and conduction of electrical signalling in nerves and muscles. They have also been detected in lymphocytes, glia, and fibroblasts. VGSC proteins are comprised of a core alpha-subunit, together with one or more additional regulatoy beta-subunit. VCSC expression has been detected in a number of tumour cell lines and has been implicated in the metastatic behaviour of breast and prostate cancer cells. Na(v)1.5, the major cardiac voltage-gated Na(+) channel, plays a central role in the generation of the cardiac action potential and in the propagation of electrical impulses in the heart. Its importance for normal heart function has been recently exemplified by reports of numerous mutations found in the gene SCN5A which encodes Na(v)1.5.

Molecular weight: 180-200 kDa

Ic50:

Applications

Application: FACS ; IHC ; IF ; WB
Application notes:

Handling

Format: Liquid
Concentration: 1 mg/ml
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer: PBS with 0.02% azide
Storage conditions:

-15° C to -25° C
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: