

## Na<sup>+</sup> CP type IX $\alpha$ polyclonal antibody

Catalog: BS5813

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Voltage-gated sodium channels are selective ion channels that regulate the permeability of sodium ions in excitable cells. During the propagation of an action potential, sodium channels allow an influx of sodium ions, which rapidly depolarizes the cell. Na<sup>+</sup> CP type IX $\alpha$ , also known as SCN9A (sodium channel protein type 9 subunit  $\alpha$ ), NENA, PN1, Nav1.7 or ETHA, is a 1,988 amino acid multi-pass membrane protein that belongs to the voltage-gated sodium channel family. Expressed in dorsal root ganglion, smooth muscle cells and in the central and peripheral nervous system, Na<sup>+</sup> CP type IX $\alpha$  functions to mediate the voltage-dependent sodium ion permeability of membranes, specifically forming a sodium-selective ion channel through which sodium may pass. Via its ability to control the flow of sodium in and out of excitable membranes, Na<sup>+</sup> CP type IX $\alpha$  plays an important role in the inflammatory pain response. Defects in the gene encoding Na<sup>+</sup> CP type IX $\alpha$  are the cause of primary erythralgia, autosomal recessive congenital indifference to pain and paroxysmal extreme pain disorder (PEPD), all of which are genetic pain disorders.

### Product:

1mg/ml in PBS with 0.1% Sodium Azide, 50% Glycerol.

### Molecular Weight:

~ 226 kDa

### Swiss-Prot:

Q15858

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum

by affinity-chromatography using epitope-specific immunogen and the purity is &gt; 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

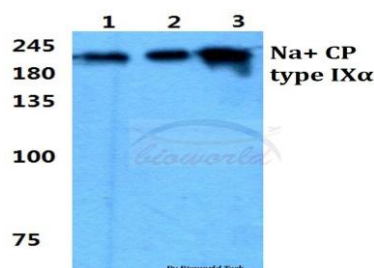
### Storage&Stability:

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

### Specificity:

Na<sup>+</sup> CP type IX $\alpha$  polyclonal antibody detects endogenous levels of Na<sup>+</sup> CP type IX $\alpha$  protein.

### DATA:


Western blot (WB) analysis of Na<sup>+</sup> CP type IX $\alpha$  polyclonal antibody at 1:500 dilution

Lane1:MCF-7 cell lysate

Lane2:NIH-3T3 cell lysate

Lane3:H9C2 cell lysate

### Note:

For research use only, not for use in diagnostic procedure.

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