

## Recombinant Anti-SCN9A Antibody (V3S-1022-YC415)

Cat. No.: V3S-1022-YC415

### Summary

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| <b>Description</b>        | This product is a recombinant human antibody provided by CreativeBiolabs. The antibody is specific for Sodium Voltage-Gated Channel Alpha Subunit 9, this gene encodes a voltage-gated sodium channel which plays a significant role in nociception signaling. It can be used for SCN9A detection in Enzyme-Linked Immunosorbent Assay. It was expressed in mammalian cells (293F or CHO) with antibody encoding genes and purified by affinity chromatography. Each lot of this antibody is quality control tested by SDS-PAGE and SEC-HPLC analysis. For highly sensitive assays, we recommend the ultrapurified form of the product, which has a lower endotoxin limit than standard antibody, less than 1 EU/mg or even 0.1 EU/mg. |
| <b>Clonality</b>          | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Host Species</b>       | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Target Species</b>     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Isotype Control</b>    | C34555                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Secondary Antibody</b> | C32400; C75370; C10513; C51635                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### Property

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|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Expression Species</b> | HEK293F or CHO Cell line                                                                                                                    |
| <b>Conjugation</b>        | Unconjugated, also available for Biotin, HRP, FITC and PE-labeled form.                                                                     |
| <b>Purity</b>             | >95%, determined by SDS-PAGE and SEC-HPLC                                                                                                   |
| <b>Endotoxin</b>          | <1 EU/mg, determined by LAL method                                                                                                          |
| <b>Purification</b>       | Purified with Protein A or G affinity chromatography                                                                                        |
| <b>Sterility</b>          | 0.2 µM filtered                                                                                                                             |
| <b>Formulation</b>        | PBS, pH 7.4                                                                                                                                 |
| <b>Preservation</b>       | No preservatives                                                                                                                            |
| <b>Stabilizer</b>         | No stabilizers                                                                                                                              |
| <b>Storage</b>            | Store at 4°C within one or two weeks. Store at -20°C for long term. Avoid repeated freeze/thaw cycles. Refer to the COA file for specifics. |

For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

## Applications

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**Application** ELISA

## Target

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**Target** SCN9A

**Alternative Name** Sodium Voltage-Gated Channel Alpha Subunit 9; Sodium Channel; Voltage-Gated; Type IX; Alpha Polypeptide; Sodium Channel; Voltage-Gated; Type IX; Alpha Subunit; Voltage-Gated Sodium Channel Subunit Alpha Nav1.7; Sodium Channel Protein Type IX Subunit Alpha; Neuroendocrine Sodium Channel; Peripheral Sodium Channel 1; HNE-Na; NENA; PN1; Sodium Channel; Voltage Gated; Type IX Alpha Subunit

**Gene ID** [6335](#)

**UniProt** [Q15858](#)

**Introduction** Mutations in this gene have been associated with primary erythralgia, channelopathy-associated insensitivity to pain, and paroxysmal extreme pain disorder. This gene encodes a voltage-gated sodium channel which plays a significant role in nociception signaling.

**Research Area** Neuroscience; Signal Pathway

**Related Disease** Inflammation, And metabolic/chronic disease

**Proceedings of R&D** Diseases associated with SCN9A include Paroxysmal Extreme Pain Disorder and Indifference To Pain, Congenital, Autosomal Recessive. Among its related pathways are Cardiac conduction and Neuropathic Pain-Signaling in Dorsal Horn Neurons. Gene Ontology (GO) annotations related to this gene include ion channel activity and sodium ion binding. An important paralog of this gene is SCN2A.

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