



NAC3 Monoclonal Antibody

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| Catalog No | BYmab-06205 |
| Isotype | IgG |
| Reactivity | Human;Mouse;Rat |
| Applications | WB |
| Gene Name | SLC8A3 NCX3 |
| Protein Name | Sodium/calcium exchanger 3 (Na ⁺)/Ca ²⁺ -exchange protein 3) |
| Immunogen | Synthesized peptide derived from human protein . at AA range: 530-610 |
| Specificity | NAC3 Monoclonal Antibody detects endogenous levels of protein. |
| Formulation | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide. |
| Source | Monoclonal, Mouse,IgG |
| Purification | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. |
| Dilution | WB 1:500-2000 |
| Concentration | 1 mg/ml |
| Purity | ≥90% |
| Storage Stability | -20°C/1 year |
| Synonyms | |
| Observed Band | 101kD |
| Cell Pathway | Cell membrane ; Multi-pass membrane protein . Perikaryon . Cell projection, dendrite . Cell projection, dendritic spine . Cell membrane, sarcolemma . Cytoplasm, sarcoplasm . Cell junction . Mitochondrion outer membrane ; Multi-pass membrane protein . Cytoplasm, perinuclear region . Endoplasmic reticulum membrane ; Multi-pass membrane protein . Detected at neuromuscular junctions. . |
| Tissue Specificity | Isoform 2 is expressed in brain and skeletal muscle. Isoform 3 is expressed in excitable cells of brain, retina and skeletal muscle. Isoform 4 is expressed in skeletal muscle. |
| Function | enzyme regulation:By intracellular calcium ions.,function:Rapidly transports Ca ²⁺ during excitation-contraction coupling. Ca ²⁺ is extruded from the cell during relaxation so as to prevent overloading of intracellular stores.,similarity:Belongs to the sodium/potassium/calcium exchanger family. SLC8 subfamily.,similarity:Contains 2 Calx-beta domains.,tissue specificity:Isoform 2 is expressed in brain and skeletal muscle; Isoform 3 is |

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expressed in excitable cells of brain, retina and skeletal muscle; Isoform 4 is expressed in skeletal muscle.,

Background

This gene encodes a member of the sodium/calcium exchanger integral membrane protein family. Na⁺/Ca²⁺ exchange proteins are involved in maintaining Ca²⁺ homeostasis in a wide variety of cell types. The protein is regulated by intracellular calcium ions and is found in both the plasma membrane and intracellular organellar membranes, where exchange of Na⁺ for Ca²⁺ occurs in an electrogenic manner. Alternative splicing has been observed for this gene and multiple variants have been described. [provided by RefSeq, Aug 2013],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images