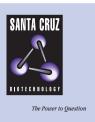
SANTA CRUZ BIOTECHNOLOGY, INC.

NKHC2 (E-13): sc-48608



BACKGROUND

Neuronal kinesin heavy chain 2 (NKHC2) is a 1,032 amino acid protein that is part of the kinesin superfamily which consists of the heavy chains of conventional kinesin. NKHC is expressed throughout the central nervous system, but is highly expressed in certain subsets of neurons. NKHC has a unique C-terminal stretch of 69 amino acids and interacts with dystrobrevin, an adaptor/scaffolding protein. This interaction may play a role in the transport and targeting of components of the dystrophin-associated protein complex to precise sites in the cell. NKHC may also be involved in the microtubuledependent slow axonal transport of neurofilament proteins during the maturation of neuronal cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KIF5C (human) mapping to 2q23.1; Kif5c (mouse) mapping to 2 C1.1.

SOURCE

NKHC2 (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NKHC2 of human origin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-48608 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NKHC2 (E-13) is recommended for detection of NKHC2 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NKHC2 siRNA (h): sc-61203, NKHC2 siRNA (m): sc-61204, NKHC2 shRNA Plasmid (h): sc-61203-SH, NKHC2 shRNA Plasmid (m): sc-61204-SH, NKHC2 shRNA (h) Lentiviral Particles: sc-61203-V and NKHC2 shRNA (m) Lentiviral Particles: sc-61204-V.

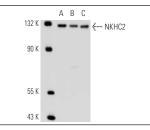
Molecular Weight of NKHC2: 115 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, mouse brain extract: sc-2253 or AtT-20/D16vF2 whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



NKHC2 (E-13): sc-48608. Western blot analysis of NKHC2 expression in IMR-32 (**A**) and AtT-20/D16vF2 (**B**) whole cell lysates and mouse brain tissue extract (**C**)

RESEARCH USE

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