SANTA CRUZ BIOTECHNOLOGY, INC.

α-internexin (H-90): sc-48740



BACKGROUND

 α -internexin is a brain specific type IV intermediate filament protein. This axonal protein is found in most, if not all, neurons of the CNS. The head domain of α -internexin is essential for self-assembly into a filament network. Expression levels of α -internexin have been shown to be maximal during late embryogenesis and to decline into adulthood, suggesting that this protein plays a role in regulatory processes during the development of the brain. The α -internexin promoter has been shown to be activated by Brn-3a or Brn-3c transcription factor binding, while Brn-3b binding to the promoter results in α -internexin repression.

REFERENCES

- 1. Fliegner, K.H., et al. 1990. The predicted amino acid sequence of α -internexin is that of a novel neuronal intermediate filament protein. EMBO J. 9: 749-755.
- 2. Fliegner, K.H., et al. 1994. Expression of the gene for the neuronal intermediate filament protein α -internexin coincides with the onset of neuronal differentiation in the developing rat nervous system. J. Comp. Neurol. 342: 161-173.

CHROMOSOMAL LOCATION

Genetic locus: INA (human) mapping to 10q24.33; Ina (mouse) mapping to 19 C3.

SOURCE

 α -internexin (H-90) is a rabbit polyclonal antibody raised against amino acids 410-499 mapping at the C-terminus of α -internexin of human origin.

PRODUCT

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

APPLICATIONS

 α -internexin (H-90) is recommended for detection of α -internexin of mouse, rat 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).

 α -internexin (H-90) is also recommended for detection of α -internexin in additional species, including canine and bovine.

Suitable for use as control antibody for α -internexin siRNA (h): sc-41992, α -internexin siRNA (m): sc-41993, α -internexin shRNA Plasmid (h): sc-41992-SH, α -internexin shRNA Plasmid (m): sc-41993-SH, α -internexin shRNA (h) Lentiviral Particles: sc-41992-V and α -internexin shRNA (m) Lentiviral Particles: sc-41993-V.

Molecular Weight of α -internexin: 66 kDa.

Positive Controls: rat brain extract: sc-2392, IMR-32 cell lysate: sc-2409 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA





 $\alpha\text{-internexin}$ (H-90): sc-48740. Western blot analysis of $\alpha\text{-internexin}$ expression in HeLa whole cell lysate.

 $\alpha\text{-internexin}$ (H-90): sc-48740. Western blot analysis of $\alpha\text{-internexin}$ expression in IMR-32 whole cell lysate.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfation Guaranteed

Try α-internexin (G-9): sc-271302 or α-internexin (2E3): sc-58478, our highly recommended monoclonal aternatives to α-internexin (H-90).