

Myoneurin (JB-17): sc-101082

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. Myoneurin, also known as MYNN, OSZF, SBBIZ1 or ZBTB31 (zinc-finger and BTB domain-containing protein 31), is a 610 amino acid protein that belongs to the Krüppel C₂H₂-type zinc-finger family. Localized to the nucleus and expressed primarily in the neuromuscular system, Myoneurin is thought to be involved in a wide range of developmental events in muscle tissue. Upon nerve injury, Myoneurin expression is dysregulated, suggesting that Myoneurin functions only in normal developmental processes. Myoneurin contains one BTB (POZ) domain and eight C₂H₂-type zinc fingers through which it may convey DNA-binding activity. Due to alternative splicing events, Myoneurin exists as four isoforms within the cell.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MYNN (human) mapping to 3q26.2.

SOURCE

Myoneurin (JB-17) is a mouse monoclonal antibody raised against recombinant Myoneurin of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Myoneurin (JB-17) is recommended for detection of Myoneurin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 Myoneurin siRNA (h): sc-78263, Myoneurin shRNA Plasmid (h): sc-78263-SH and Myoneurin shRNA (h) Lentiviral Particles: sc-78263-V.

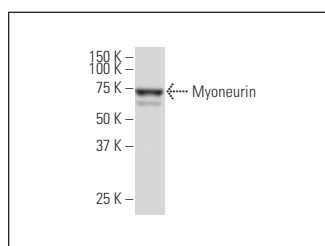
Molecular Weight of Myoneurin: 68 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

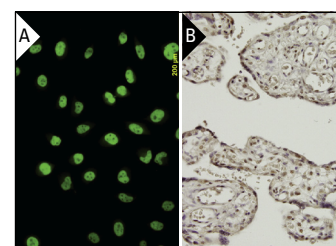
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



Myoneurin (JB-17): sc-101082. Western blot analysis of Myoneurin expression in HeLa nuclear extract.



Myoneurin (JB-17): sc-101082. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing nuclear localization (A). Immunoperoxidase staining of formalin-fixed, paraffin-embedded human placenta tissue showing nuclear and cytoplasmic localization (B).

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.