

p-HMGN3 (34.Ser 31): sc-135765

BACKGROUND

HMGN3 (high mobility group nucleosome-binding domain-containing protein 3), also known as TRIP7 (thyroid receptor-interacting protein 7), is a 99 amino acid member of the HMGN protein family. Localized to the nucleus, HMGN3 is believed to enhance transcription from chromatin templates by reducing the compactness of the chromatin fibers in the nucleosomes. HMGN3 also interacts with the ligand binding domain of the thyroid receptor. HMGN3 is induced by estrogen, and is abundantly expressed in skeletal muscle, kidney and heart with lower levels found in liver, pancreas and lung. HMGN3 is expressed as two isoforms produced by alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HMGN3 (human) mapping to 6q14.1; Hmgn3 (mouse) mapping to 9 E2.

STORAGE

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

SOURCE

p-HMGN3 (34.Ser 31) is a mouse monoclonal antibody raised against a short amino acid sequence containing Ser 31 phosphorylated HMGN3 of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-135765 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-135765 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

p-HMGN3 (34.Ser 31) is recommended for detection of Ser 31 phosphorylated HMGN3 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for HMGN3 siRNA (h): sc-95436, HMGN3 siRNA (m): sc-146053, HMGN3 shRNA Plasmid (h): sc-95436-SH, HMGN3 shRNA Plasmid (m): sc-146053-SH, HMGN3 shRNA (h) Lentiviral Particles: sc-95436-V and HMGN3 shRNA (m) Lentiviral Particles: sc-146053-V.

p-HMGN3 (34.Ser 31) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of p-HMGN3: 10 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto B Blocking Reagent: sc-2335 (use 50 mM NaF, sc-24988, as diluent), Lambda Phosphatase: sc-200312A and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

RESEARCH USE

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

PROTOCOLS

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