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

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

SOURCE
p-HMGN3 (47.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 µg IgG₂κ kappa light chain in 1.0ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Shift and ChIP applications, sc-135764 X, 200 µg/0.1 ml.

APPLICATIONS
p-HMGN3 (47.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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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, 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.

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. Not for resale.

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