

# HMGN4 (P-14): sc-247176

## BACKGROUND

HMGN4 (high mobility group nucleosome-binding domain-containing protein 4), also known as NHC (non-histone chromosomal protein), is a 99 amino acid member of the HMGN protein family. Localized to the nucleus, HMGN4 is believed to enhance transcription from chromatin templates by reducing the compactness of the chromatin fibers in the nucleosomes. Widely expressed in a variety of tissues, HMGN4 is encoded by a gene that maps to human chromosome 6p22.2, which is within the hereditary hemochromatosis region of chromosome 6. Hereditary hemochromatosis is a genetic disease characterized by the absorption and storage of too much iron in the body. Hereditary hemochromatosis causes a bronzing of the skin and diabetes, as well as eventual organ damage or failure.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: HMGN4 (human) mapping to 6p22.2.

## SOURCE

HMGN4 (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of HMGN4 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-247176 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

HMGN4 (P-14) is recommended for detection of HMGN4 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with HMGN3.

Suitable for use as control antibody for HMGN4 siRNA (h): sc-95090, HMGN4 shRNA Plasmid (h): sc-95090-SH and HMGN4 shRNA (h) Lentiviral Particles: sc-95090-V.

Molecular Weight of HMGN4: 9 kDa.

## 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) 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.