

Nup205 (H-300): sc-292100

BACKGROUND

The nuclear pore complex (NPC) mediates bidirectional macromolecular traffic between the nucleus and cytoplasm in eukaryotic cells and is comprised of more than 100 different subunits. Many of the subunits belong to a family called nucleoporins (Nups), which are characterized by the presence of O-linked-N-acetylglucosamine moieties and a distinctive pentapeptide repeat (XFXFG). Nup205 (nucleoporin 205 kDa), also known as C7orf14 or KIAA0225, is a 2,012 amino acid that localizes to the nucleus and functions as an essential component of the nuclear pore complex. The gene encoding Nup205 maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Defects in some of the genes localized to chromosome 7 have been linked to osteogenesis imperfecta, Williams-Beuren syndrome, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome.

CHROMOSOMAL LOCATION

Genetic locus: NUP205 (human) mapping to 7q33; Nup205 (mouse) mapping to 6 B1.

SOURCE

Nup205 (H-300) is a rabbit polyclonal antibody raised against amino acids 661-960 mapping within an internal region of Nup205 of human origin.

PRODUCT

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

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.

APPLICATIONS

Nup205 (H-300) is recommended for detection of Nup205 of mouse, rat and 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Nup205 (H-300) is also recommended for detection of Nup205 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for Nup205 siRNA (h): sc-89531, Nup205 siRNA (m): sc-150120, Nup205 shRNA Plasmid (h): sc-89531-SH, Nup205 shRNA Plasmid (m): sc-150120-SH, Nup205 shRNA (h) Lentiviral Particles: sc-89531-V and Nup205 shRNA (m) Lentiviral Particles: sc-150120-V.

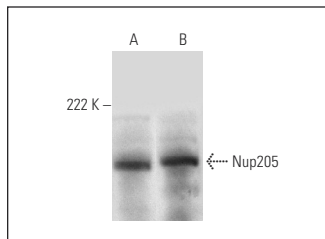
Molecular Weight of Nup205: 228 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225 or K-562 whole cell lysate: sc-2203.

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



Nup205 (H-300): sc-292100. Western blot analysis of Nup205 expression in CCRF-CEM (A) and K-562 (B) whole cell lysates.

PROTOCOLS

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


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Try **Nup205 (H-1): sc-377047**, our highly recommended monoclonal alternative to Nup205 (H-300).