

Nucleoporin p62 (N-terminal region)

Cat. # NM4361

Host Mouse Monoclonal IgG2b

Size 100 µl

Background:

Active transport of proteins and RNA into and out of the nucleus occurs via the nuclear pore complex (NPC). The NPC is formed by a multiprotein complex that includes nucleoporin proteins. Specific nuclear localization sequences found in proteins target proteins for active transport into the nucleus through the NPC. Nucleoporin p62 is the best characterized member of the family of nucleoporins found in the NPC. A tightly associated complex is formed by p62 and two other nucleoporins, p54 and p58. p54 binds to a carboxy-terminal coiled-coil domain of p62 and p58 binds to a dimer of p54. The amino-terminal domain of p62 contains a series of XFXFX repeats and is joined to the coiled-coil domain by a threonine-rich linker segment. The major role of p62 is maintenance of the structural integrity of NPCs.

References

Carmo-Fonseca M. et al. (1991) Eur J Cell Biol. 55(1):17-30.
Newmeyer, D.D. (1993) Curr Opin Cell Biol. 5(3):395.

Immunogen:

Clone M436 was generated from a recombinant protein containing amino acid residues in the N-terminal region of human nucleoporin p62. This sequence has high homology to similar regions in rat, mouse, and chicken nucleoporin p62.

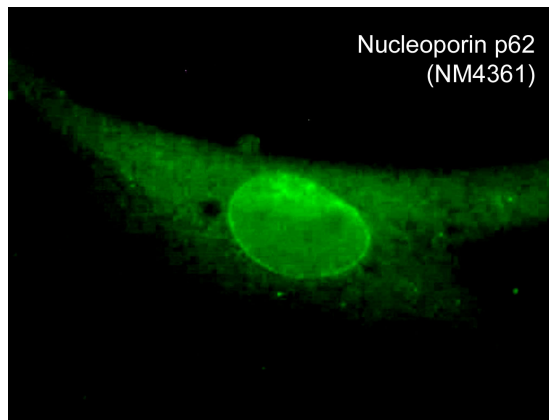
Applications:

WB 1:500
ICC 1:50
ELISA 1:1000

End user should determine optimal dilution for their particular applications and experiments. Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

Related Products:

HP4291 Histone H2B (C-terminus) Rabbit Polyclonal
GM3421 GM130 (C-terminal region) Mouse Monoclonal
EM3471 Early Endosome Antigen 1 (EEA1) Mouse Monoclonal
CM2811 Caveolin-1 Mouse Monoclonal
CM4371 Calnexin (N-terminal region) Mouse Monoclonal
HM4381 Hsp60 (N-terminal region) Mouse Monoclonal



Immunocytochemical labeling of Nucleoporin p62 in paraformaldehyde-fixed and NP40-permeabilized A7r5 cells. The fixed cells were labeled with mouse monoclonal anti-Nucleoporin p62 (N-terminal region) and the antibody was detected using Goat anti-Mouse secondary antibodies conjugated to DyLight® 488.

Buffer and Storage:

Mouse monoclonal purified with protein A chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Do not aliquot. Stable for 1 year.

Specificity:

This antibody detects a 62 kDa* protein corresponding to the apparent molecular mass of nucleoporin p62 on SDS-PAGE immunoblots of human HeLa and rat A7r5 cells. In immunocytochemistry, anti-Nucleoporin p62 specifically stains nuclei and nuclear envelope in paraformaldehyde fixed and NP-40 permeabilized cells.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

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