

Recombinant Human NUP98 cell lysate

Cat. No. NUP98-1235HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Human

Description

Signal-mediated nuclear import and export proceed through the nuclear pore complex (NPC), which is comprised of approximately 50 unique proteins collectively known as nucleoporins. The 98 kD nucleoporin is generated through a biogenesis pathway that involves synthesis and proteolytic cleavage of a 186 kD precursor protein. This cleavage results in the 98 kD nucleoporin as well as a 96 kD nucleoporin, both of which are localized to the nucleoplasmic side of the NPC. Rat studies show that the 98 kD nucleoporin functions as one of several docking site nucleoporins of transport substrates. The human gene has been shown to fuse to several genes following chromosome translocations in acute myelogenous leukemia (AML) and T-cell acute lymphocytic leukemia (T-ALL). This gene is one of several genes located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. Alternative splicing of this gene results in several transcript variants; however, not all variants have been fully described.

Size 100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

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Applications Western Blot;

GENE INFORMATION

Gene Name [NUP98 nucleoporin 98kDa \[Homo sapiens \]](#)

Official Symbol NUP98

Synonyms NUP98; nucleoporin 98kDa; nucleoporin 98kD; nuclear pore complex protein Nup98-
Nup96; NUP96; Nup98-Nup96; GLFG-repeat containing nucleoporin; ADIR2;
NUP196;

Gene ID [4928](#)

mRNA Refseq [NM_005387](#)

Protein Refseq [NP_005378](#)

MIM [601021](#)

UniProt ID [P52948](#)

**Chromosome
Location** 11p15

Pathway Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem; Cell
Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem;
Cytokine Signaling in Immune system, organism-specific biosystem; DNA Replication,
organism-specific biosystem; Disease, organism-specific biosystem; Export of Viral
Ribonucleoproteins from Nucleus, organism-specific biosystem;

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Function

protein binding; structural constituent of nuclear pore; transporter activity;

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