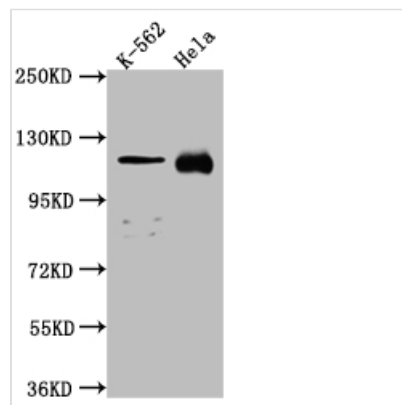




NUP98 Antibody

Product Code	CSB-RA995655A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P52948
Immunogen	A synthesized peptide derived from human NUP98
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, IF; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IF:1:20-1:200
Relevance	Plays a role in the nuclear pore complex (NPC) assembly and/or maintenance. Nup98 and Nup96 are involved in the bidirectional transport across the NPC. May anchor NUP153 and TPR to the NPC.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling; Signal transduction
Gene Names	NUP98
Accession NO.	2H4

Image



Western Blot

Positive WB detected in: K562 whole cell lysate, HeLa whole cell lysate

All lanes: NUP98 antibody at 1:1000

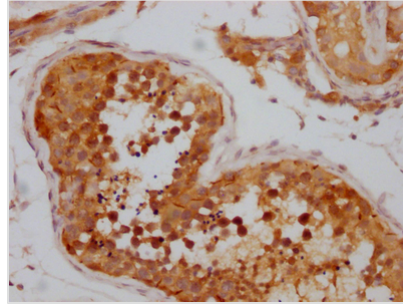
Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

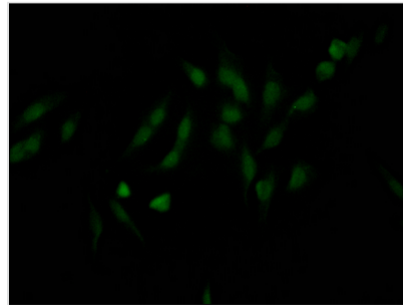
Predicted band size: 198, 188, 98, 97, 196, 187 kDa

kDa

Observed band size: 100 kDa



IHC image of CSB-RA995655A0HU diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence staining of HeLa Cells with CSB-RA995655A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

The nucleoporin NUP98 is a structural component of the nuclear pore complex (NPC) and a chaperone in the transport and export of messenger ribonucleoprotein particles to the NPC, through the nuclear envelope, and into the cytoplasm. NUP98 has been linked to the regulation of transcription and RNA metabolism. Nup98 primarily serves as an activator with a preference for promoters of genes involved in the development, cell signaling, and cell cycle-related processes. Additionally, human Nup98 plays a role in the transcriptional memory of interferon-induced genes by interacting with their promoters. NUP98 fusions are most common in myeloid malignancies, specifically AML, CML-bc, and MDS.

To produce this recombinant NUP98 antibody, we needed to get the gene sequence of the antibody. B cell screening was used in the process. Once the sequence was obtained, it would lead to the expression plasmids so that the NUP98 antibody can be expressed in mammalian cells. Moreover, this recombinant NUP98 antibody was validated in ELISA, WB, IHC, IF.