Datasheet for ABIN2781008

anti-NUP98 antibody (N-Term)

2 Images

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Overview

Quantity:	100 µL
Target:	NUP98
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Horse, Rabbit, Cow, Guinea Pig, Saccharomyces cerevisiae, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NUP98 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human NUP98
Sequence:	AFGTSAFGSS NNTGGLFGNS QTKPGGLFGT SSFSQPATST STGFGFGTST
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Yeast: 91%, Zebrafish: 85%
Characteristics:	This is a rabbit polyclonal antibody against NUP98. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	NUP98

Target Details

Alternative Name:	NUP98 (NUP98 Products)
Background:	The nuclear pore complex (NPC) is comprised of approximately 50 unique proteins collectively known as nucleoporins. The 98 kD nucleoporin is 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 chromsome translocatons 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. 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 chromsome translocatons 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. Alias Symbols: ADIR2, NUP196, NUP96 Protein Interaction Partner: UBC, SUMO2, SUMO3, CDC37, EED, CDC73, PAF1, ARFGEF2, FBXO6, NXF1, HDAC11, HDAC8, LMNA, HNRNPUL1, CSNK2A1, ECT2, NUP107, RAE1, SUMO1, NUMA1, rev, SIRT7, RAPGEF3, CTNNB1, NUP88, NUP159, NUP82, Nup98, Nup214, Nup188, tat, HDAC1, CREBBP, PTTG1, APC, NPM1, USP Protein Size: 1800
Molecular Weight:	196 kDa
Gene ID:	4928
NCBI Accession:	NM_016320, NP_057404
Pathways:	Stem Cell Maintenance, Protein targeting to Nucleus, SARS-CoV-2 Protein Interactome

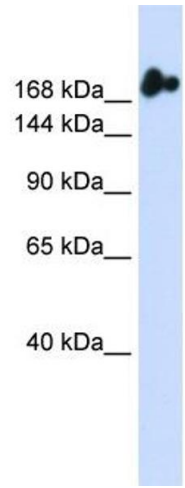
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 1800 AA
Restrictions:	For Research Use only

Handling

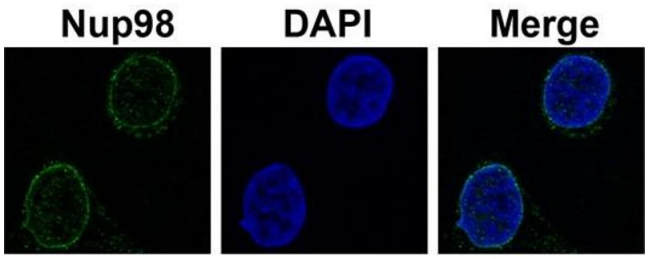
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-NUP98 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: Transfected 293T



Immunofluorescence

Image 2. Immunofluorescence -- Sample Type: HeLa cellsDilution: 2ug/mL