

ARG40498 anti-NUP98 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NUP98
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NUP98
Species	Human
Immunogen	Synthetic peptide derived from Human NUP98.
Conjugation	Un-conjugated
Alternate Names	NUP196; Nuclear pore complex protein Nup98-Nup96; ADIR2; Nup98; Nup96; NUP96; 98 kDa nucleoporin; Nucleoporin Nup98; Nucleoporin Nup96; 96 kDa nucleoporin

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

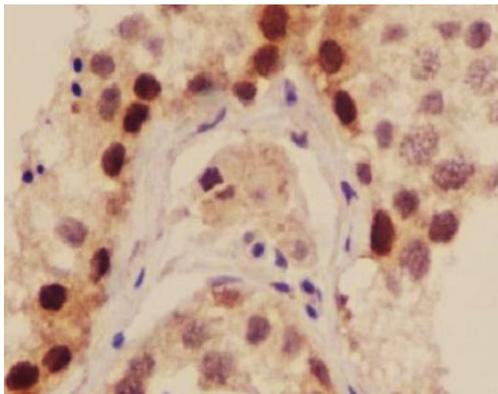
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	NUP98
Gene Full Name	nucleoporin 98kDa
Background	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 kDa nucleoporin is generated through a biogenesis pathway that involves synthesis and proteolytic cleavage of a 186 kDa precursor protein. This cleavage results in the 98 kDa nucleoporin as well as a 96 kDa nucleoporin, both of which are localized to the nucleoplasmic side of the NPC. Rat studies show that the 98 kDa 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. [provided by RefSeq, May 2010]
Function	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. [UniProt]
Calculated Mw	198 kDa
PTM	Isoform 1 to isoform 4 are autoproteolytically cleaved to yield Nup98 and Nup96 or Nup98 only, respectively (PubMed:10087256, PubMed:20407419, PubMed:12191480, PubMed:18287282). Cleaved Nup98 is necessary for the targeting of Nup98 to the nuclear pore and the interaction with Nup96 (PubMed:20407419, PubMed:12191480). Proteolytically degraded after poliovirus (PV) infection; degradation is partial and NCP- and TPR-binding domains withstand degradation. [UniProt]
Cellular Localization	Nucleus membrane; Peripheral membrane protein; Nucleoplasmic side. Nucleus, nuclear pore complex, nucleoplasm. Note=Localized to the nucleoplasmic side of the nuclear pore complex (NPC), at or near the nucleoplasmic basket. Dissociates from the disassembled NPC structure early during prophase of mitosis. Colocalized with NUP153 and TPR to the nuclear basket of NPC. Colocalized with DHX9 in diffuse and discrete intranuclear foci (GLFG-body). [UniProt]

Images



ARG40498 anti-NUP98 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human testis tissue stained with ARG40498 anti-NUP98 antibody.

ARG40498 anti-NUP98 antibody WB image

Western blot: HeLa cell lysate stained with ARG40498 anti-NUP98 antibody.

