

Anti-NUP98 Picoband Antibody
Catalog # ABO11993**Specification**

Anti-NUP98 Picoband Antibody - Product Information

Application	WB
Primary Accession	P52948
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Nuclear pore complex protein Nup98-Nup96(NUP98) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-NUP98 Picoband Antibody - Additional Information

Gene ID 4928

Other Names

Nuclear pore complex protein Nup98-Nup96, Nuclear pore complex protein Nup98, 98 kDa nucleoporin, Nucleoporin Nup98, Nup98, Nuclear pore complex protein Nup96, 96 kDa nucleoporin, Nucleoporin Nup96, Nup96, NUP98, ADAR2

Calculated MW

197579 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Nucleus. Nucleus membrane; Peripheral membrane protein; Nucleoplasmic side. Nucleus, nuclear pore complex. Nup96 is 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. Detected in diffuse and discrete intranuclear foci. Remained localized to the nuclear membrane after poliovirus (PV) infection.

Protein Name

Nuclear pore complex protein Nup98-Nup96

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E.coli-derived human NUP98 recombinant protein (Position: H549-F880). Human NUP98 shares

95% and 94% amino acid (aa) sequence identity with mouse and rat NUP98, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the nucleoporin GLFG family.

Anti-NUP98 Picoband Antibody - Protein Information

Name NUP98 ([HGNC:8068](#))

Synonyms ADAR2

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 (PubMed:[33097660](http://www.uniprot.org/citations/33097660)). May anchor NUP153 and TPR to the NPC. In cooperation with DHX9, plays a role in transcription and alternative splicing activation of a subset of genes (PubMed:[28221134](http://www.uniprot.org/citations/28221134)). Involved in the localization of DHX9 in discrete intranuclear foci (GLFG-body) (PubMed:[28221134](http://www.uniprot.org/citations/28221134)).

Cellular Location

Nucleus membrane; Peripheral membrane protein; Nucleoplasmic side Nucleus, nuclear pore complex. Nucleus, nucleoplasm Note=Localized to the nucleoplasmic side of the nuclear pore complex (NPC), at or near the nucleoplasmic basket (PubMed:11839768) Dissociates from the disassembled NPC structure early during prophase of mitosis (PubMed:12802065). Colocalized with NUP153 and TPR to the nuclear basket of NPC (PubMed:11839768). Colocalized with DHX9 in diffuse and discrete intranuclear foci (GLFG-body) (PubMed:11839768, PubMed:28221134).

Anti-NUP98 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-NUP98 Picoband Antibody - Images



Anti- NUP98 Picoband antibody, ABO11993, Western blottingAll lanes: Anti NUP98 (ABO11993) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Mouse Liver Tissue Lysate at 50ugLane 3: Mouse Lung Tissue Lysate at 50ugLane 4: A549 Whole Cell Lysate at 40ugLane 5: SMMC Whole Cell Lysate at 40ugPredicted bind size: 98KDObserved bind size: 98KD

Anti-NUP98 Picoband Antibody - Background

Nuclear pore complex protein Nup98-Nup96 is a protein that in humans is encoded by the NUP98 gene. This gene is one of several genes located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. NUP98 is a peripheral nucleoporin located at both the cytoplasmic and nuclear sides of the central channel of the NPC. NUP98 phosphorylation is critical for NPC disassembly at the onset of mitosis. It also plays roles in gene expression, mitotic checkpoint, and pathogenesis. Ligand blot analysis suggested that NUP98 can function as a docking protein for cytosol-mediated docking of import substrates. In addition to that, NUP98 is a target of the vesicular stomatitis virus M protein-mediated inhibition of mRNA nuclear export.