

## Anti-NUP98 Antibody Picoband®

Catalog Number: PB9302

### About NUP98

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.

### Overview

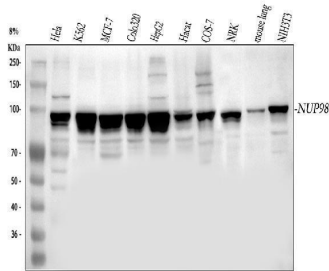
Product Name	Anti-NUP98 Antibody Picoband®
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-NUP98 Antibody Picoband® catalog # PB9302. Tested in WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.01mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P52948

### Technical Details

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.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Monkey, Mouse, Rat

## Anti-NUP98 Antibody Picoband® (PB9302) Images



Western blot analysis of NUP98 using anti-NUP98 antibody (PB9302). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: human COLO320 whole cell lysates, Lane 5: human HepG2 whole cell lysates, Lane 6: human Hacat whole cell lysates, Lane 7: monkey COS-7 whole cell lysates, Lane 8: rat NRK whole cell lysates, Lane 9: mouse lung tissue lysates, Lane 10: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NUP98 antigen affinity purified polyclonal antibody (Catalog # PB9302) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NUP98 at approximately 98 kDa. The expected band size for NUP98 is at 198 kDa.

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