BOSTER
antibody and ELISA experts

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# Anti-NUP62 Antibody Picoband™

**Catalog Number:** A03950-2

## About NUP62

The nuclear pore complex is a massive structure that extends across the nuclear envelope, forming a gateway that regulates the flow of macromolecules between the nucleus and the cytoplasm. Nucleoporins are the main components of the nuclear pore complex in eukaryotic cells. The protein encoded by this gene is a member of the FG-repeat containing nucleoporins and is localized to the nuclear pore central plug. This protein associates with the importin alpha/beta complex which is involved in the import of proteins containing nuclear localization signals. Multiple transcript variants of this gene encode a single protein isoform.

## Overview

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| Product Name | Anti-NUP62 Antibody Picoband™ |
| Reactive Species | Human, Mouse |
| Description | Boster Bio Anti-NUP62 Antibody Picoband™ catalog # A04659. Tested in WB, IHC, ICC/IF, FCM(Intracellular), ELISA applications. This antibody reacts with Human, Mouse. |
| Application | ELISA, IF, IHC, ICC, WB, Flow Cytometry (Intracellular) |
| Clonality | Polyclonal 1B9 |
| Formulation | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4. |
| Storage Instructions | 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 freezing and thawing. |
| Host | Rabbit |
| Uniprot ID | P37198 |

## Technical Details

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| Immunogen | E.coli-derived human NUP62 recombinant protein (Position: E404-D522). |
| Predicted Reactive Species | Bovine, Canine, Chicken, Primate, Sheep, Xenopus, Zebrafish |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC. |
| Cross Reactivity | No cross reactivity with other proteins. |
| Isotype | IgG |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml. |

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| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.<br>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows:<br>Boster Bio's internal QC testing used:<br>Western blot, 0.25-0.5 μg/ml, Human, Mouse<br>Immunohistochemistry, 2-5 μg/ml, Human<br>Immunocytochemistry/Immunofluorescence, 5 μg/ml, Human<br>Flow Cytometry (Intracellular), 1-3 μg /1x$10^6$ cells, Human<br>ELISA, 0.1-0.5 μg/ml, Human |

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# Anti-NUP62 Antibody Picoband™ (A03950-2) Images

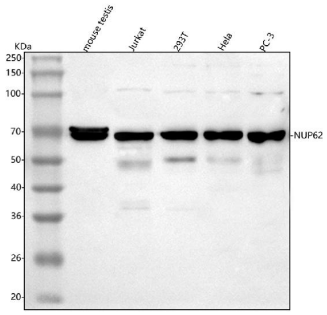


Figure 1. Western blot analysis of NUP62 using anti-NUP62 antibody (A03950-2).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: mouse testis tissue lysates,
Lane 2: human Jurkat whole cell lysates,
Lane 3: human 293T whole cell lysates,
Lane 4: human Hela whole cell lysates,
Lane 5: human PC-3 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-NUP62 antigen affinity purified polyclonal antibody (Catalog # A03950-2) 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 NUP62 at approximately 69 kDa. The expected band size for NUP62 is at 53 kDa.

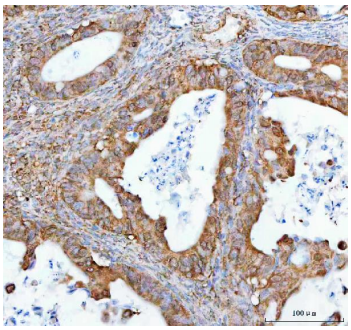

Figure 2. IHC analysis of NUP62 using anti-NUP62 antibody (A03950-2).
NUP62 was detected in a paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-NUP62 Antibody (A03950-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

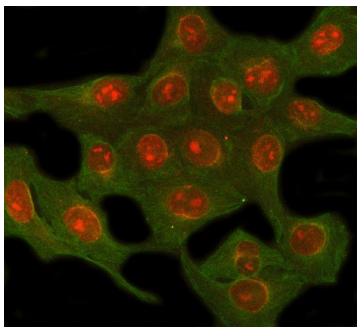

Figure 3. IF analysis of NUP62 using anti-NUP62 antibody (A03950-2) and anti-Beta Tubulin antibody (M01857-3).
NUP62 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-NUP62 Antibody (A03950-2) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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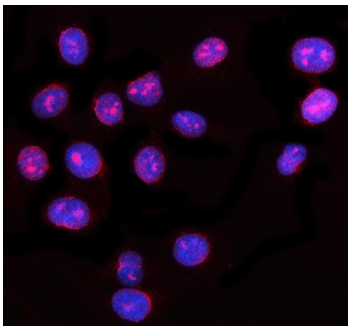

Figure 4. IF analysis of NUP62 using anti-NUP62 antibody (A03950-2).
NUP62 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-NUP62 Antibody (A03950-2) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

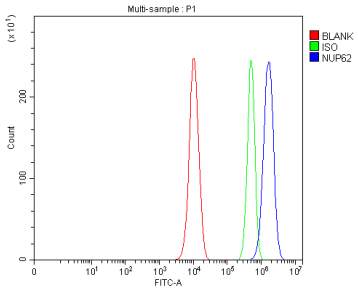


Figure 5. Flow Cytometry analysis of PC-3 cells using anti-NUP62 antibody (A03950-2).
Overlay histogram showing PC-3 cells stained with A03950-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NUP62 Antibody (A03950-2, 1 ug/1x$10^6$ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x$10^6$ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x$10^6$) used under the same conditions. Unlabelled sample (Red line) was also used as a control.