

# Anti-NUP153 Monoclonal Antibody

Catalog # ABO14727

## Product Information

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|                          |                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IF, ICC, FC                                                                                                       |
| <b>Primary Accession</b> | <a href="#">P49790</a>                                                                                                |
| <b>Host</b>              | Rabbit                                                                                                                |
| <b>Isotype</b>           | Rabbit IgG                                                                                                            |
| <b>Reactivity</b>        | Human                                                                                                                 |
| <b>Clonality</b>         | Monoclonal                                                                                                            |
| <b>Format</b>            | Liquid                                                                                                                |
| <b>Description</b>       | Anti-NUP153 Monoclonal Antibody . Tested in WB, ICC/IF, Flow Cytometry applications. This antibody reacts with Human. |

## Additional Information

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|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                         | 9972                                                                                                                                                                                                                                             |
| <b>Other Names</b>                     | Nuclear pore complex protein Nup153, 153 kDa nucleoporin, Nucleoporin Nup153, NUP153                                                                                                                                                             |
| <b>Calculated MW</b>                   | 153938                                                                                                                                                                                                                                           |
| <b>Application Details</b>             | WB 1:500-1:2000<br>ICC/IF 1:50-1:200<br>FC 1:50                                                                                                                                                                                                  |
| <b>Source</b>                          | Eukaryota                                                                                                                                                                                                                                        |
| <b>Contents</b>                        | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                                                              |
| <b>Clone Names</b><br><b>Immunogen</b> | Clone: AFDA-14<br>A synthesized peptide derived from human Nup153 Possible DNA-binding subunit of the nuclear pore complex (NPC). The repeat-containing domain may be involved in anchoring components of the pore complex to the pore membrane. |
| <b>Purification</b>                    | Affinity-chromatography                                                                                                                                                                                                                          |
| <b>Storage</b>                         | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                                                                       |

## Protein Information

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|             |        |
|-------------|--------|
| <b>Name</b> | NUP153 |
|-------------|--------|

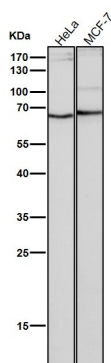
## Function

Component of the nuclear pore complex (NPC), a complex required for the trafficking across the nuclear envelope. Functions as a scaffolding element in the nuclear phase of the NPC essential for normal nucleocytoplasmic transport of proteins and mRNAs. Involved in the quality control and retention of unspliced mRNAs in the nucleus; in association with TPR, regulates the nuclear export of unspliced mRNA species bearing constitutive transport element (CTE) in a NXF1- and KHDRBS1-independent manner. Mediates TPR anchoring to the nuclear membrane at NPC. The repeat-containing domain may be involved in anchoring other components of the NPC to the pore membrane. Possible DNA-binding subunit of the nuclear pore complex (NPC).

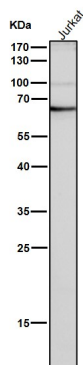
## Cellular Location

Nucleus. Nucleus membrane. Nucleus, nuclear pore complex. Note=Tightly associated with the nuclear membrane and lamina (By similarity). Localized to the nucleoplasmic side of the nuclear pore complex (NPC) core structure, forming a fibrous structure called the nuclear basket. Dissociates from the NPC structure early during prophase of mitosis. Integrated in the newly assembled nuclear envelope of postmitotic cells early in G1 Colocalized with NUP98 and TPR to the nuclear basket at the nucleoplasmic side of the NPC. Detected in diffuse and discrete intranuclear foci. Remained localized to the nuclear membrane after poliovirus (PV) infection. Colocalizes with NUP210L at the nuclear periphery in round spermatids and at the caudal extremity in elongating spermatids (PubMed:38129135). {ECO:0000250, ECO:0000269 | PubMed:38129135}

## Images

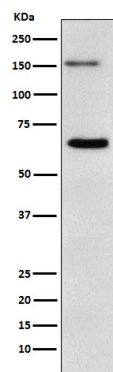


All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.



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Western blot analysis of Nup153 expression in K562 cell lysate.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.