

## **Anti-Nup153 antibody, rat monoclonal (R4C8)**

# 70-315      200 µg

The nuclear pore complex (NPC) regulates cargo transport between the cytoplasm and the nucleus. Nup Nucleoporin 153 is a large (153kDa) O-linked glycoprotein which is a component of the basket structure located on the nucleoplasmic face of NPC. Nup153 plays a critical role in nuclear export of RNA and proteins. The antibody was purified from the serum-free cultured medium of the hybridoma under mild conditions by propriety chromatography processes.

### **Applications**

1. Western blot 160 kDa single band in HeLa cell extract
2. Immunocytochemistry
3. ELISA

Other applications have not been tested.

Additional comments: When injected into the nucleus, R4C8 accumulates into the nuclear pores of Hela cells. R4C8 works in immunocytochemistry very well Fig. 2 & 3

### **Specification**

Immunogen: Recombinant GST-fused rat Nup153 610-1191aa

Epitope: 610-1191 aa Zn finger and FG repeats domain

Isotype: Rat IgG2ak

Form: Purified monoclonal antibody (IgG) 1mg/ml in PBS, 50% glycerol, filter-sterilized

Specificity: Specific to human, mouse, rat and monkey Nup153 proteins. Other species have not been tested.

Storage: -20°C, for long term storage -70°C

### **Data Link**

UniProtKB/Swiss-Prot [P49790](#) (NU153\_HUMAN)

### **References:**

1. Ullman KS *et al* "The nucleoporin Nup153 plays a critical role in multiple types of nuclear export" *Molecular Biology of the Cell* 10: 649-664 (1999) PMID: [10069809](#)
2. Lim RY *et al* "Nanomechanical basis of selective gating by the nuclear pore complex" *Science* 318: 640-643 (2007) PMID: [17916694](#)

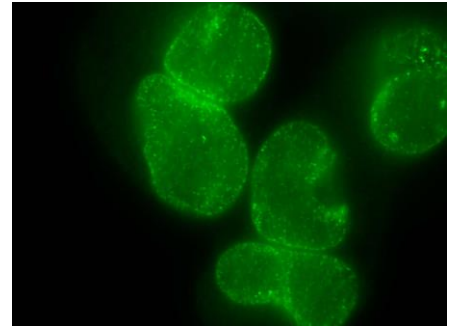
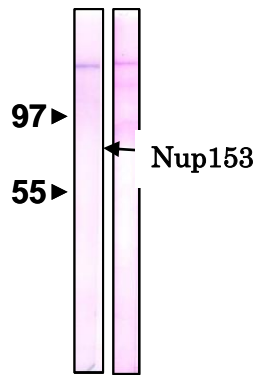


Fig.1  
Detection of Nup153 by Western blotting with antibody R4C8.  
Sample is the nuclear membrane fraction of HeLa cells (Left) and NIH3T3 cells (Right).

Fig.2  
Immunofluorescent staining of HeLa cells with antibody R4C8.

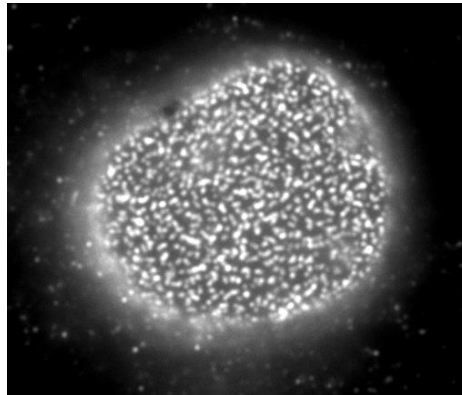


Fig.3  
Immunofluorescent staining of rat neuron with antibody R4C8.  
The dots are Nup153.