



## 39C7-Panspecific Nuclear Pore Complex Marker Data Sheet

<b>Catalog Number:</b>	MO22107	<b>Host:</b>	Mouse
<b>Product Type:</b>	Protein G purified IgG <sub>1</sub>	<b>Species Reactivity:</b>	Human, Rat, Mouse
<b>Immunogen Sequence:</b>	Raised by injecting mice with yeast nuclear preparations and screening the resulting hybridomas by immunofluorescence on yeast cells. MCA-39C7 was one of a series of clones which strongly and specifically labeled the nuclear pore complex.	<b>Format:</b>	Sterile-filtered cell culture fluid from an Integra CL-350 bio-chamber with 10 mM sodium azide as a preservative. Concentration: 0.25mg/ml.

**Applications:** Immunofluorescence: 1:100 -1:500 (yeast cells)-1:50-1:100 (mammalian cells).

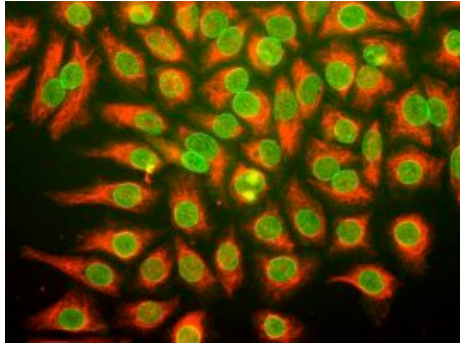
Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

**Storage:** Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*

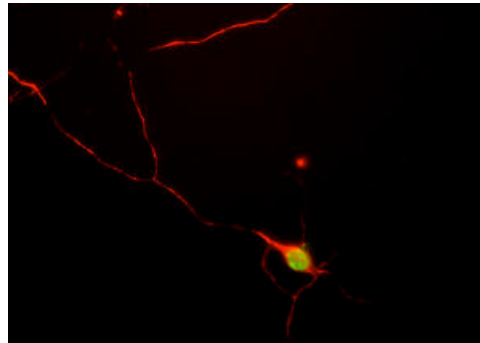
### Application Notes

#### Description/Data:

This monoclonal was raised by injecting mice with yeast nuclear preparations and screening the resulting hybridomas by immunofluorescence on yeast cells. Clone 39C7 was one of a series of clones which strongly and specifically labelled the nuclear pore complex. When this antibody was tested on cells from other species, including rat, mouse and human cells, it has invariably strongly stained nuclear pore complexes, so it appears to be an excellent and panspecific marker for these important structures. This antibody does not work well on western blots so we are currently unsure of the exact identity of the protein to which it binds.



*Image: Human HeLa cells were stained with monoclonal antibody 39C7, which binds to a nuclear pore complex antigen, and Neuromics' chicken antibody to vimentin*



*Image: E18 hippocampal neurons grown for four days and stained in the red channel with our polyclonal antibody to the neurofilament subunit NF-M which forms short filaments in these cells at this stage. The cells were also stained in green with 39C7.*

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