

NUP98 antibody [13C2]

Cat No. GTX00693

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Application	WB, ICC/IF
Reactivity	Human, Saccharomyces cerevisiae, Schizosaccharomyces pombe, Tetrahymena

Reference (1)
 Package
 100 µg

APPLICATION

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Dilution
WB	Assay dependent
ICC/IF	Assay dependent

Not tested in other applications.

Specificity/Sensitivity For ICC/IF application, it works on *S. cerevisiae*, *S. pombe*, and *T. etrahymena* but is not suitable for human. Recommend GTX00695 NUP98 antibody [21A10] on human samples.

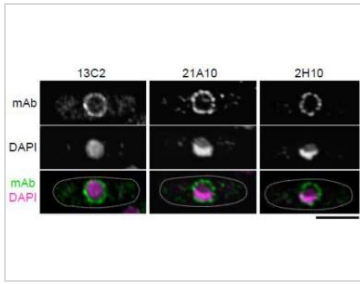
PROPERTIES

Form	Liquid
Buffer	Filter-sterilized PBS, 50% glycerol
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Synthetic peptides containing conserved N-terminal sequence, GLFG, of Nup98 protein of <i>Tetrahymena thermophila</i> : Peptide 1; 1-MFGNTGGGGLFGNTQTQQTGGGLFGQPQQ-29 Peptide 2; 646-SNPTQGGGLFGAANPGLGG-664 Epitope determined: FGxxN
Purification	Purified IgG
Conjugation	Unconjugated
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



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DATA IMAGES



GTX00693 ICC/IF Image

ICC/IF analysis of *S. pombe* cells using GTX00693 NUP98 antibody [13C2], GTX00695 NUP98 antibody [21A10], or GTX00697 NUP98 antibody [2H10].

Green : Primary antibody

Violet : DAPI

Fixation : 4% PFA for 10 min, treated with 0.6 mg/ml Zymolyase 100T at 3 degree C for 70 min

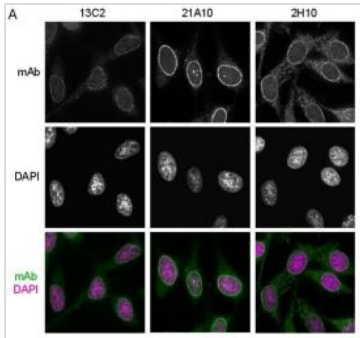
Permeabilization : 1% Triton X-100 for 1 min

SUMMARY OF THE SUITABILITY OF MAbs FOR IMMUNOLOGICAL APPLICATIONS

mAb	Isotype	<i>T. thermophila</i>		HeLa cell		<i>S. cerevisiae</i>		<i>S. pombe</i>		epitope
		IF	WB	IF	WB	IF	WB	IF	WB	
13C2	Mouse IgG1	+++	+++	+	+++	+++	+++	+++	+++	FGoN
21A10	Mouse IgG1	+++	+	+++	-	+++	++	+++	++	GLF
2H10	Rat IgG2c	-	+	+++	+	+++	+++	+++	++	Unidentified

GTX00693 Image

Summary of the suitability of GTX00693 NUP98 antibody [13C2], GTX00695 NUP98 antibody [21A10], or GTX00697 NUP98 antibody [2H10] for immunological applications.



GTX00693 ICC/IF Image

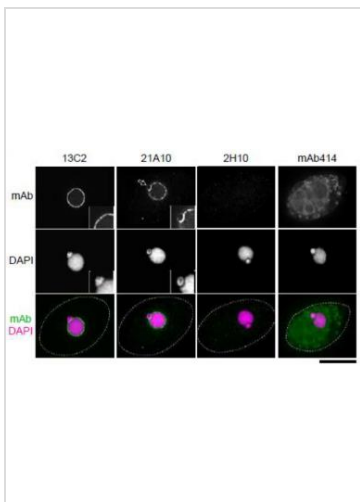
ICC/IF analysis of HeLa cells using GTX00693 NUP98 antibody [13C2], GTX00695 NUP98 antibody [21A10], or GTX00697 NUP98 antibody [2H10]. The signal at the nuclear periphery with 21A10 mAb was much higher and the background lower than that of 2H10 and 13C2 antibodies.

Green : Primary antibody

Violet : DAPI

Dilution : 0.5 µg/ml

Fixation : Cold Methanol (-30 degree C) for 30 min



GTX00693 ICC/IF Image

ICC/IF analysis of *Tetrahymena thermophila* cells using GTX00693 NUP98 antibody [13C2], GTX00695 NUP98 antibody [21A10], or GTX00697 NUP98 antibody [2H10]. The open arrow indicates the micronucleus. Insets are magnified images showing the position of the micronucleus. Both clone 13C2 and 21A10 stained the macronuclear periphery of *T. thermophila*. 13C2 mAb was highly specific to the macronucleus. In contrast, in addition to clear macronuclear staining, clone 21A10 also stained the micronuclear periphery. This indicates that 21A10 recognizes Nups localizing to the micronucleus such as Nup308 in addition to MacNup98A. Neither could 2H10 nor 414 could stain nuclear periphery of *Tetrahymena*.

Green : Primary antibody

Violet : DAPI

Dilution : 0.5 µg/ml

Fixation : Cold Methanol (-30 degree C) for 30 min



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