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Datasheet for 900-301-D98

Nuclear Pore Complex Antibody

Overview

Description:	Anti-Nuclear Pore Complex (MOUSE) Antibody - 900-301-D98
Item No.:	900-301-D98
Size:	100 µL
Applications:	IF
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Nuclear Pore Complex Antibody detects Nuclear Pore Complex proteins. The nuclear pore complex (NPC) is a very large structure made up of at least 50 different proteins that span the double membrane of the nuclear envelope functioning as a gateway for macromolecular traffic between the cytoplasm and the nucleus. Discrete nuclear pore complex proteins or nucleoporins such as NUP98, NUP180 and p62 have been implicated in autoimmune disease and cancer. Patients with primary biliary cirrhosis (PBC) frequently produce autoantibodies against p62 and NUP180 while NUP98 translocations have been found in patients with acute myelogenous leukemia (AML). Anti-Nuclear Pore Complex Antibody is ideal for investigators involved in Cancer and Immunology Research.
Synonyms:	mouse anti-Nuclear Pore Complex Antibody, NPC, NUP62, NUP, NUP133
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	39C7
Format:	IgG

Target Details

Gene Name:	Nuclear stain of multiple gene products including Nup62, Nup133
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Native Protein

Immunogen:	Anti-Nuclear Pore Complex Antibody (Monoclonal) was produced by repeated immunizations with yeast nuclear preparations.
Purity/Specificity:	Anti-Nuclear Pore Complex antibody is directed against Nuclear Pore Complex proteins. The antibody is protein G purified from concentrated clarified cell culture supernate. This antibody is directed against yeast NPC protein. Reactivity is expected from human, mouse and rat.

Application Details

Tested Applications:	IF
Application Note:	Anti-Nuclear Pore Complex Antibody is tested for use in ICC/IF. Specific conditions for reactivity should be optimized by the end user
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1:50-100

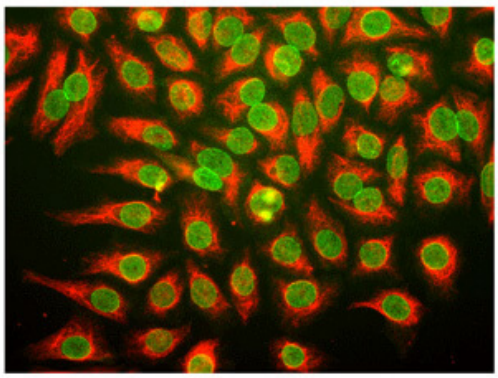
Formulation

Physical State:	Liquid
Concentration:	Titrated value sufficient to run approximately 10 mini blots.
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunostaining of HeLa cells with anti-nuclear pore complex (green) and anti-vimentin antibodies (red) (cat.#2105-VIM).

Immunocytochemistry

Immunofluorescence Microscopy of Mouse anti-Nuclear Pore Complex antibody. Tissue: HeLa cells. Fixation: 0.5% PFA Antigen retrieval: not required. Primary antibody: Nuclear Pore Complex antibody at 1:50-1:100 for 1 h at RT. Secondary antibody: Fluorescein mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: Nuclear Pore Complex spans the double membrane of the nuclear membrane. Staining: Nuclear Pore Complex as green fluorescent signal with chicken anti-vimentin as red fluorescent signal.

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