

#13358 Store at 4°C

NUP98 (C39A3) Rabbit mAb (Alexa Fluor® 488 Conjugate)



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For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*	Isotype
IF-IC Endogenous	H, M, R, Mk	Rabbit IgG

Description: This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct immunofluorescence analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated NUP98 (C39A3) Rabbit mAb # 2598.

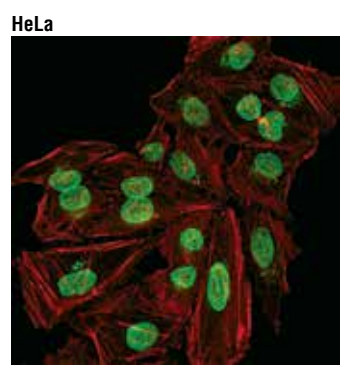
Background: Nucleoporin 98 kDa (NUP98) is a component of the nuclear pore complex. It is expressed as three different precursors that undergo auto-cleavage to generate a common amino-terminal 98 kDa peptide (NUP98) and carboxy-terminal 6, 96 (NUP96) and 88 (p88) kDa peptides (1,2). NUP98 contains FG and GLFG repeat domains at its amino terminus and a RNA-binding domain in its carboxy terminus (3). The NUP98 gene is localized on chromosome 11p15.5, a region frequently rearranged in leukemias. To date, 15 fusion partners have been identified for NUP98 (4,5).

Specificity/Sensitivity: NUP98 (C39A3) Rabbit mAb (Alexa Fluor® 488 Conjugate) detects endogenous levels of total NUP98 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro671 of human NUP98.

Background References:

- (1) Fontoura, B.M. et al. (1999) *J. Cell Biol.* 144, 1097-1112.
- (2) Rosenblum, J.S. and Blobel, G. (1999) *Proc. Natl. Acad. Sci. USA* 96, 11370-11375.
- (3) Griffis, E.R. et al. (2004) *Mol. Biol. Cell* 15, 1991-2002.
- (4) Slape, C. and Aplan, P.D. (2004) *Leuk. Lymphoma* 45, 1341-1350.
- (5) Nakamura, T. (2005) *Int. J. Hematol.* 82, 21-27.



Confocal immunofluorescent analysis of HeLa cells using NUP98 (C39A3) Rabbit mAb (Alex Fluor® 488 Conjugate) (green). Actin filaments were labeled with DyLight™ 554 Phalloidin #13054 (red).

Entrez Gene ID #4928
UniProt ID #P52948

Storage: Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. *Do not aliquot the antibodies. Protect from light. Do not freeze.*

***Species cross-reactivity is determined by western blot using the unconjugated antibody.**

Recommended Antibody Dilutions:
Immunofluorescence (IF-IC) 1:50

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

The Alexa Fluor® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc., for research use only, except for use in combination with DNA microarrays. The Alexa Fluor® dyes (except for Alexa Fluor® 430 dye) are covered by pending and issued patents. Alexa Fluor® is a registered trademark of Molecular Probes, Inc.

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.