Anti-Nup98 antibody, rat monoclone (2H10)

70-310 200 μg

Nucleoporin 98 (Nup98) is a component of nuclear pore complex (NPC), which is a large protein assembly embedded in the nuclear envelope. It is localized on both nuclear and cytoplasmic side of NPC. This protein contains glycine-leucine-phenylalanine-glycine (GLFG) amino acid repeats and plays a critical role in nuclear trafficking (1). Nup98 plays a specific role in the RNA export. Nup98 gene is fused to a variety of partner genes in human myeloid and T-cell malignancies via chromosomal translocation (2). This hybridoma has been established by Prof. T. Tachibana's Lab at Osaka City Univ.

Applications

1) Western blotting (Fig. 1) 2) Immunocytochemistry (Fig. 2) 3)ELISA 4) Dot blotting

Properties: When injected into the cytoplasm, this antibody accumulates into the nuclear pores of HeLa cells and inhibits nuclear localization of endogenous Ran.

Immunogen: Recombinant GST-fused human Nup98 (amino acids 1-466)

Isotype: Rat IgG2c (κ)

Reactivity: Human, mouse and rat Nup98 proteins. Other species, not tested.

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

Storage: -20℃ (long period; -80℃)

Reference: This product was used in reference 3

1. Griffis ER, et al., Mol. Biol. Cell 13, 1282-1297 (2002)
2. Moore MA, et al., Ann. N. Y. Acad. Sci. 1106, 114-142 (2007) review
3. Fukuhara T, et al., Hybridoma 24, 244-247 (2005)

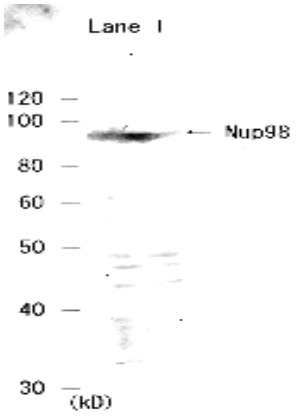

Fig. 1. Detection of Nup98 protein by Western blotting with antibody 2H10

Sample is the extract of MCF7 cells.

The IgG solution was 5,000-fold diluted before use.

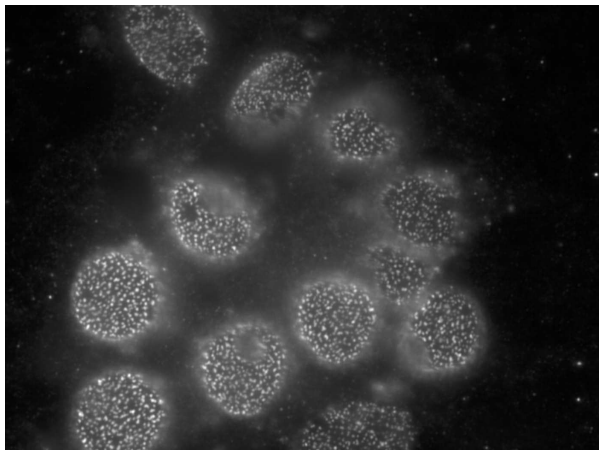

Fig. 2. Immunofluorescent staining of primary culture of neuro-cells from mouse fetal brain with antibody 2H10.

The dots are Nup98.

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