Human/Mouse/Rat Nucleoporin NUP85 Antibody

Monoclonal Mouse IgG_1 Clone # 783403

Catalog Number: MAB5976

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human Nucleoporin NUP85 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 783403
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Nucleoporin NUP85 Met1-Ser656 Accession # Q9BW27
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

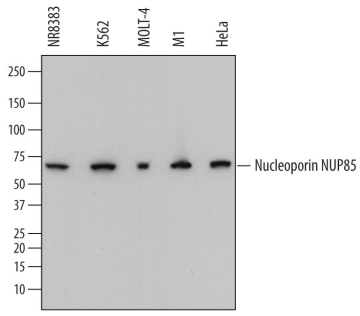
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.2 µg/mL	See Below

DATA

Western Blot



Detection of Human, Mouse, and Rat Nucleoporin NUP85 by Western Blot. Western blot shows lysates of NR8383 rat alveolar macrophage cell line, K562 human chronic myelogenous leukemia cell line, MOLT-4 human acute lymphoblastic leukemia cell line, M1 mouse myeloid leukemia cell line, and HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human/Mouse/Rat Nucleoporin NUP85 Monoclonal Antibody (Catalog # MAB5976) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Nucleoporin NUP85 at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

NUP85 (Nucleoporin 85; also Nup75/nucleoporin 75 and FROUNT) is a 70-72 kDa member of the nucleoporin Nup85 family of proteins. It is one of nine members of the Nup107-160 subcomplex that performs at least two functions in the cell. First, it serves as an assembly point for nuclear pore formation, and may stabilize the bend that normally exists between the inner and outer nuclear membranes. Second, it appears to be quite stable, and during mitosis, promotes mitotic spindle assembly. Human NUP85 is 656 amino acids (aa) in length. It is an α-helical protein with no obvious domain(s) or structural motif. Phosphorylation on Ser233, however, may regulate the overall interaction of the NUP107-160 subcomplex with the much larger nuclear pore. There one potential splice form that shows an alternative start site at Met47. Full-length NUP85 shares 92% aa identity with mouse NUP85.

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