For Research Use Only

NUP85 Recombinant antibody, PBS Only (Detector)

Catalog Number:83288-1-PBS

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Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
83288-1-PBS

Size:
100ug , Concentration: 1mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7086

GenBank Accession Number:
BC000697

GeneID (NCBI):
79902

UNIPROT ID:
Q9BW27

Full Name:
nucleoporin 85kDa

Calculated MW:
75 kDa

Purification Method:
Protein A purification

CloneNo.:
240116A2

Applications

Tested Applications:
IF/ICC, FC (Intra), Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human

Product Information

83288-1-PBS targets NUP85 as part of a matched antibody pair:

MP00330-1: 83288-2-PBS capture and 83288-1-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

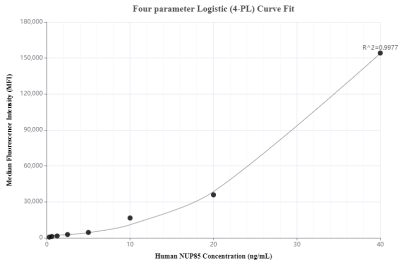
This gene encodes a protein component of the Nup107-160 subunit of the nuclear pore complex. NPCs are key for nucleocytoplasmic transport, but also regulate the mitotic machinery, transcription and chromatin organization through transport-independent mechanisms. The NUP107-160 complex is acknowledged to contribute to the assembly and maintenance of the NPC structure. Members of this largest subcomplex of the NPC associate with kinetochores, mitotic spindles, centrosomes and mitotic checkpoint regulators for proper completion of the cell cycle . Downregulation of NUP107-160 subcomplex members resulted in defective cytokinesis, compromised microtubule structures, altered cytoskeletal dynamics, impaired chromosome segregation and differentiation. (PMID:34170319)

Storage

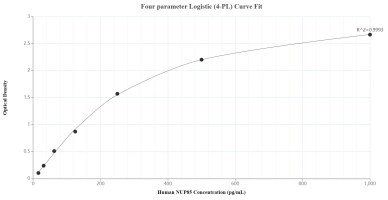
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

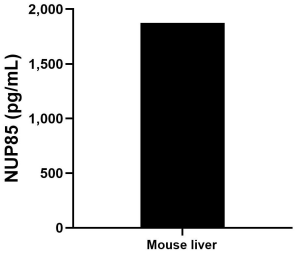
Selected Validation Data



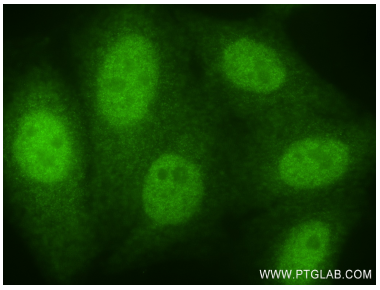
Cytometric bead array standard curve of MP00330-1, NUP85 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83288-2-PBS. Detection antibody: 83288-1-PBS. Standard: Ag7086. Range: 0.313-40 ng/mL.



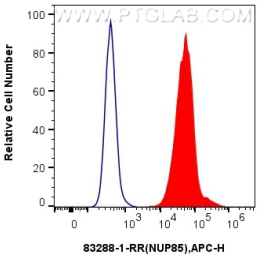
Sandwich ELISA standard curve of MP00330-1, Human NUP85 Recombinant Matched Antibody Pair - PBS only. 83288-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag7086. 83288-1-PBS was HRP conjugated as the detection antibody. Range: 15.6-1000 pg/mL.



The mean NUP85 concentration was determined to be 1,874.5 pg/mL in mouse liver tissue extract based on a 3.0 mg/mL extract load.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NUP85 antibody (83288-1-RR, Clone: 240116A2) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83288-1-PBS in a different storage buffer formulation.



1x10^6 MCF-7 cells were intracellularly stained with 0.25 ug NUP85 Recombinant antibody (83288-1-RR, Clone:240116A2) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83288-1-PBS in a different storage buffer formulation.