

For Research Use Only

MNT Recombinant antibody, PBS Only (Capture)

Catalog Number: 83648-1-PBS



Basic Information

Catalog Number: 83648-1-PBS	GenBank Accession Number: BC117563	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4335	CloneNo.: 240550A10
Source: Rabbit	UNIPROT ID: Q99583	
Isotype: IgG	Full Name: MAX binding protein	
Immunogen Catalog Number: AG34529	Calculated MW: 582 aa, 62 kDa	
	Observed MW: 70 kDa	

Applications

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

Species Specificity:
human, rat

Product Information

83648-1-PBS targets MNT as part of a matched antibody pair:

MP00617-1: 83648-1-PBS capture and 83648-3-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

MP00617-2: 83648-1-PBS capture and 83648-4-PBS detection (validated in Cytometric bead array)

MP00617-3: 83648-1-PBS capture and 83648-2-PBS detection (validated in Cytometric bead array)

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

Mnt (Max binding protein), also known as MAD6, ROX, bHLHd3 (class D basic helix-loop-helix protein 3) or MXD6, is a 582 amino acid nuclear protein that forms a complex with Max (Myc-associated factor X) to repress transcription. Mnt contains one basic helix-loop-helix (bHLH) domain and is encoded by a gene that maps to human chromosome 17p13.3. Chromosome 17 comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

Storage

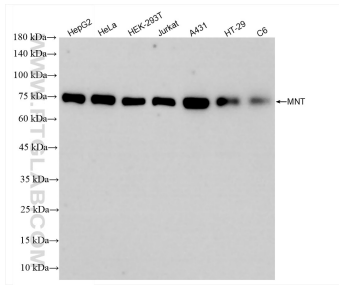
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

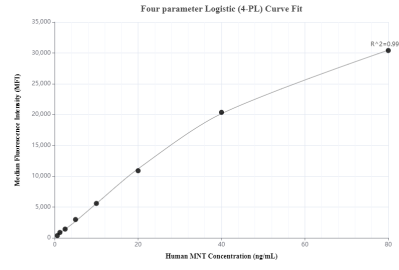
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

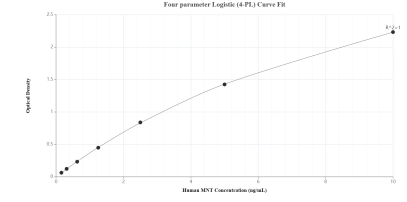
Selected Validation Data



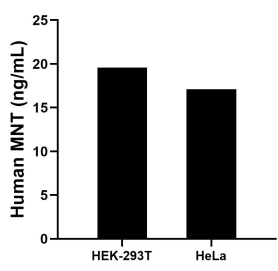
Various lysates were subjected to SDS PAGE followed by western blot with 83648-1-RR (MNT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83648-1-PBS in a different storage buffer formulation.



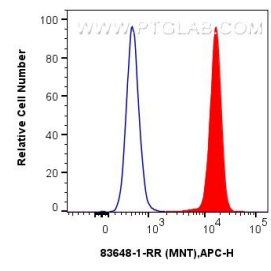
Cytometric bead array standard curve of MP00617-1, MNT Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83648-1-PBS. Detection antibody: 83648-3-PBS. Standard: Ag34529. Range: 0.625-80 ng/mL



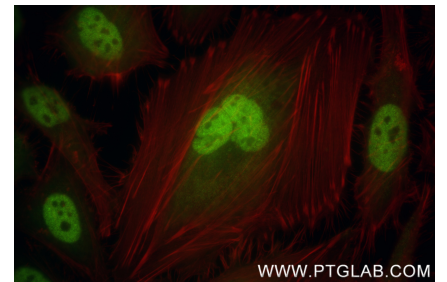
Sandwich ELISA standard curve of MP00617-1, Human MNT Recombinant Matched Antibody Pair - PBS only. 83648-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag34529. 83648-3-PBS was HRP conjugated as the detection antibody. Range: 0.156-10 ng/mL



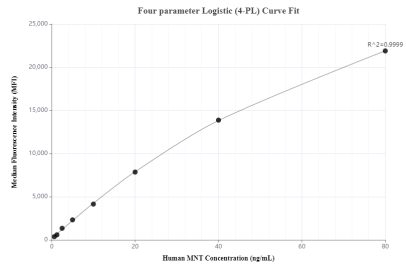
The mean MNT concentration was determined to be 19.62 ng/mL in HEK-293T cell extract based on a 5.50 mg/mL extract load and 17.06 ng/mL in HeLa cell extract based on a 3.60 mg/mL extract load.



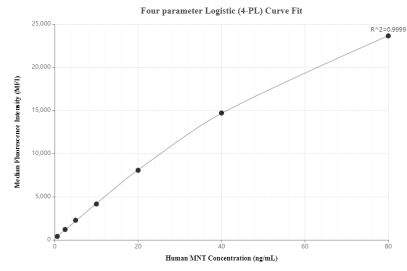
1×10^6 A431 cells were intracellularly stained with 0.25 ug MNT Recombinant antibody (83648-1-RR, Clone:240550A10) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 83648-1-PBS in a different storage buffer formulation.



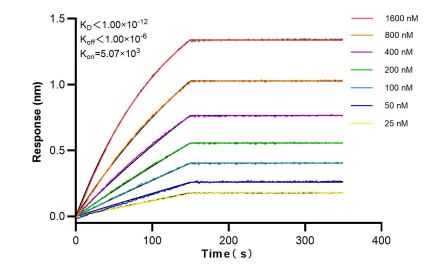
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MNT antibody (83648-1-RR, Clone: 240550A10) at dilution of 1:1000 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83648-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00617-2, MNT Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83648-1-PBS. Detection antibody: 83648-4-PBS. Standard: Ag34529. Range: 0.625-80 ng/mL



Cytometric bead array standard curve of MP00617-3, MNT Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83648-1-PBS. Detection antibody: 83648-2-PBS. Standard: Ag34529. Range: 0.625-80 ng/mL



Bi-layer interferometry (BLI) kinetic assays of 83648-1-RR against Human MNT were performed. The affinity constant is below 1 pM.