

For Research Use Only

BUB1 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 86843-4-PBS



Basic Information

Catalog Number: 86843-4-PBS	GenBank Accession Number: BC028201	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 699	CloneNo.: 251580E5
Source: Rabbit	UNIPROT ID: O43683	
Isotype: IgG	Full Name: budding uninhibited by benzimidazoles 1 homolog (yeast)	
Immunogen Catalog Number: AG4138	Calculated MW: 1085 aa, 122 kDa	
	Observed MW: 120-130 kDa	

Applications

Tested Applications:
WB, IF/ICC, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse

Product Information

86843-4-PBS targets BUB1 as part of a matched antibody pair.

MP02812-1: 86843-5-PBS capture and 86843-4-PBS detection (validated in 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

Bub1 is an evolutionarily conserved mitotic checkpoint control protein that is present in diverse organisms including yeast and humans. Bub1 is a serine/threonine protein kinase and is required for recruitment of Mad1, Mad2, Bub3, and CENP-E to kinetochores. Full-length Bub1 protein was cleaved to an 45 kDa fragment and an intermediate fragment of 90 kDa, only detected at early stages of apoptosis execution, indicating cleavage of Bub1 in the amino- and carboxy-terminal regions of the protein (PMID:15818396).

Storage

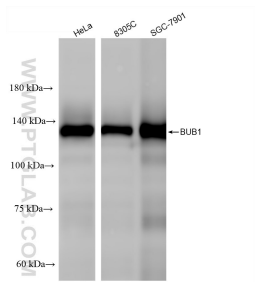
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

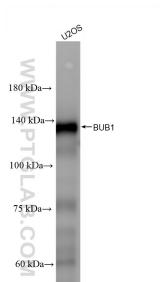
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

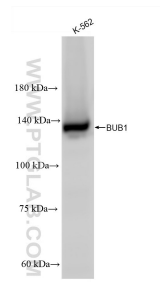
Selected Validation Data



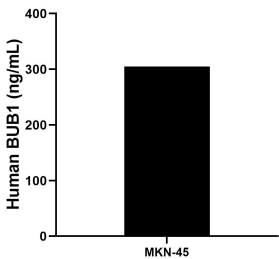
Various lysates were subjected to SDS PAGE followed by western blot with 86843-4-RR (BUB1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86843-4-PBS in a different storage buffer formulation.



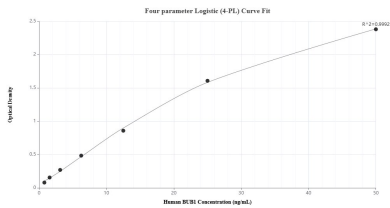
U2OS cells were subjected to SDS PAGE followed by western blot with 86843-4-RR (BUB1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86843-4-PBS in a different storage buffer formulation.



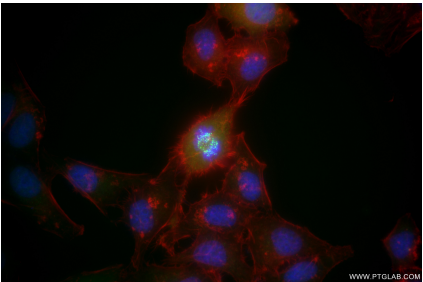
K-562 cells were subjected to SDS PAGE followed by western blot with 86843-4-RR (BUB1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86843-4-PBS in a different storage buffer formulation.



The mean BUB1 concentration was determined to be 304.97 ng/mL in MKN-45 cell extract based on a 2.0 mg/mL extract load.



Sandwich ELISA standard curve of MP02812-1, Human BUB1 Recombinant Matched Antibody Pair - PBS only. 86843-5-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag4138. 86843-4-PBS was HRP conjugated as the detection antibody. Range: 0.781-50 ng/mL



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using BUB1 antibody (86843-4-RR, Clone: 251580E5) at dilution of 1:500 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 86843-4-PBS in a different storage buffer formulation.