For Research Use Only

BUB1B Recombinant monoclonal antibody, PBS Only

Catalog Number:83920-6-PBS Featured Product

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
83920-6-PBS

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG34182

GenBank Accession Number:
BC018739

GeneID (NCBI):
701

UNIPROT ID:
O60566

Full Name:
budding uninhibited by benzimidazoles 1 homolog beta (yeast)

Calculated MW:
1050 aa, 120 kDa

Observed MW:
130 kDa

Purification Method:
Protein A purification

CloneNo.:
240969F7

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse

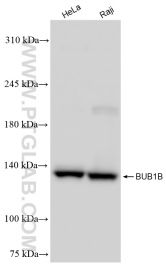
Background Information

BUB1B(Mitotic checkpoint serine/threonine-protein kinase BUB1 beta), also named as BUBR1, MAD3, and SSK1, belongs to the BUB1 subfamily. Human BUB1B is a 120 kDa protein that plays a central role in the spindle assembly checkpoint (SAC), the evolutionary conserved and self-regulatory system of higher organisms that monitors and repairs defects in chromosome segregation in mitotic cells(PMID: 22201036). In addition to phosphorylation, BUB1B is also subjected to posttranslational modifications, including acetylation(PMID: 22167194). Defects in BUB1B are the cause of the premature chromatid separation trait (PCS) and mosaic variegated aneuploidy syndrome type 1 (MVA1). Research has shown that a BUB1B isoform with a measured MW of about 65 kDa (PMID: 34620840).

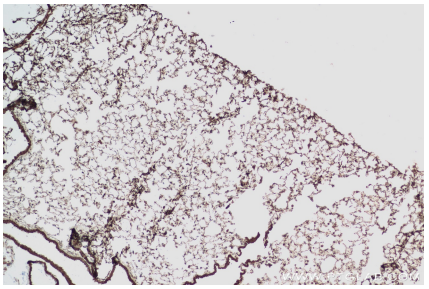
Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

Selected Validation Data

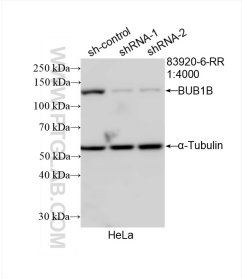


Various lysates were subjected to SDS PAGE followed by western blot with 83920-6-RR (BUB1B antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83920-6-PBS in a different storage buffer formulation.

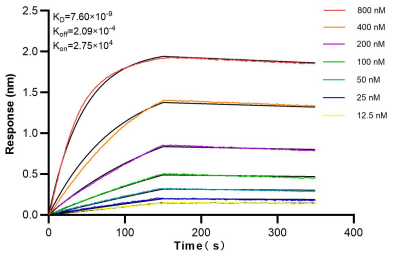


Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83920-6-RR (BUB1B antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83920-6-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (4% PFA) fixed HeLa cells using BUB1B antibody (83920-6-RR, Clone: 240969F7) 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 83920-6-PBS in a different storage buffer formulation.



WB result of BUB1B antibody (83920-6-RR; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BUB1B transfected HeLa cells. This data was developed using the same antibody clone with 83920-6-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83920-6-RR against Human BUB1B were performed. The affinity constant is 7.60 nM.