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Datasheet for 600-401-Z98

BUB1 Antibody

Overview

Description:	Anti-BUB1 (RABBIT) Antibody - 600-401-Z98
Item No.:	600-401-Z98
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Bub1 was initially identified as the mammalian homolog to the yeast protein through a cDNA screen. Bub1 encodes a kinase involved in the formation of the spindle checkpoint, an important mechanism that ensures high fidelity mitotic chromosome segregation. It is thought to be required for assembly of a functional inner centromere, sister chromatid cohesion via targeting of the Shugoshim protein and metaphase congression. Bub1 functions by phosphorylating cdc20, a member of the mitotic checkpoint complex and activating the spindle checkpoint. A related protein kinase Bub3 interacts with Bub1 and targets it to kinetochores prior to chromosome alignment. Mutations in bub1 have been associated with aneuploidy and several forms of cancer.
Synonyms:	Bub1 Antibody, BUB1A, BUB1L, hBUB1, BUB1A
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BUB1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Bub1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide from near the N-terminus of human Bub1.
Purity/Specificity:	Anti-Bub1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Bub1 from other sources has not been determined.
Relevant Links:	• UniProtKB - O43683 • GeneID - 699 • NCBI - NP_001265546.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Bub1 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 122 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:40,000
IF:	20 µg/mL
WB:	2-4 µg/mL

Formulation

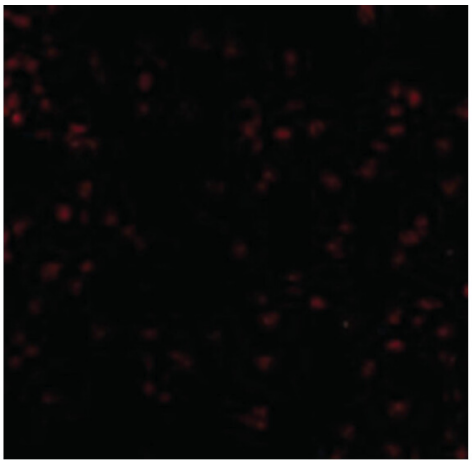
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

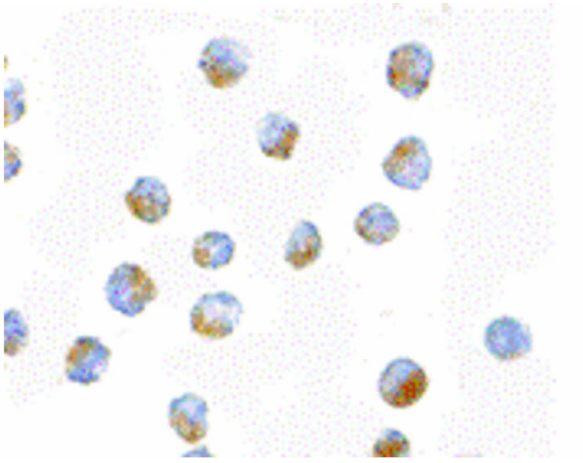
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

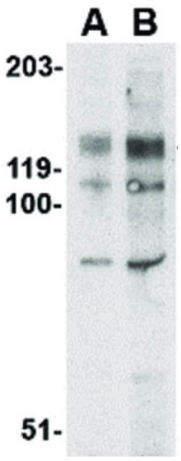
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Bub1 antibody. Tissue: A20 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Bub1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Bub1 as a red fluorescent signal.



Immunocytochemistry
Immunocytochemistry of Bub1 antibody. Tissue: A20 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Bub1 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Bub1 is nuclear and occasionally cytoplasmic. Staining: Bub1 as a precipitated brown signal with hematoxylin purple counterstain.



Western Blot

Western Blot of Bub1 antibody. Lane A: A20 cell lysate at 2 µg/mL. Lane B: A20 cell lysate at 4 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 122.3 kDa, ~122 kDa for Bub1. Other band(s): Bub1 splice variants and isoforms.

Disclaimer

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