

Datasheet for 200-301-900**BUB1 Antibody****Overview**

Description:	Anti-BUB1 (MOUSE) Monoclonal Antibody - 200-301-900
Item No.:	200-301-900
Size:	100 µg
Applications:	IF, IP, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	BUB1 (also called Mitotic checkpoint serine/threonine-protein kinase BUB1 and BUB1A) is a kinase involved in spindle checkpoint function. The kinase functions in part by phosphorylating BUB3, a member of the mitotic checkpoint complex, and activating the spindle checkpoint. Mutations in this gene have been associated with aneuploidy and several forms of cancer. BUB1 is autophosphorylated when cells enter mitosis. This protein is localized to the nucleus in interphase cells. Kinetochore localization is required for normal mitotic timing and checkpoint response to spindle damage. BUB1 is highly expressed in testis and thymus, less in colon, spleen, lung and small intestine. Expression is associated with cells/tissues with a high mitotic index.
Synonyms:	mouse anti-BUB1 antibody, Budding uninhibited by benzimidazoles 1 homolog antibody, hBUB1 antibody, Mitotic checkpoint serine/threonine protein kinase BUB1 antibody
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	14H5
Format:	IgG1

Target Details

Gene Name:	BUB1
Reactivity:	Human
Immunogen Type:	Recombinant Protein

Immunogen:	This protein A purified monoclonal antibody was produced by repeated immunizations with a recombinant protein corresponding to amino acid residues 281-419 of human BUB1 protein.
Purity/Specificity:	This Protein A purified antibody is directed against human BUB1 protein. The product was purified from tissue culture supernatant by chromatography. This antibody reacts with BUB1 from human cells. No reactivity is seen for homologues from Xenopus or Kangaroo Rat. Reactivity against homologues from other sources is not known.
Relevant Links:	• NCBI - NP_004327.1 • UniProtKB - O43683 • GeneID - 699

Application Details

Tested Applications:	IF, IP, WB
Application Note:	This protein A purified antibody has been tested for use in immunoprecipitation, immunofluorescence staining and western blot and is capable of detecting endogenous protein. Specific conditions for reactivity should be optimized by the end user. Expect a predominant band at ~ 160 kDa corresponding to full-length protein by western blotting in the appropriate cell lysate or extract. The use of HeLa whole cell lysates prepared using a RIPA buffer is recommended as a positive control. For IF microscopy use cells grown on cover slips fixed with 3.5% paraformaldehyde in PBS at pH 6.8 OR 100% methanol at -20° C. Permeabilize fixed cells with 0.5% Triton X-100.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IF:	1:500 - 1:2,000
IP:	1:200
WB:	1:500 - 1:2,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.