

## Product datasheet for **TA396753**

### **BUB1 Mouse Monoclonal Antibody [Clone ID: 14H5]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	14H5
<b>Applications:</b>	ELISA, IF, IP, WB
<b>Recommended Dilution:</b>	<b>WB:</b> 1:500 - 1:2,000 <b>IF:</b> 1:500 - 1:2,000 <b>ELISA:</b> 1:5,000 - 1:20,000
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	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.
<b>Specificity:</b>	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.
<b>Formulation:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Concentration:</b>	1.0 mg/mL - lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	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.
<b>Stability:</b>	Expiration date is one (1) year from date of receipt.
<b>Gene Name:</b>	BUB1 mitotic checkpoint serine/threonine kinase
<b>Database Link:</b>	<a href="#">Entrez Gene 699 Human O43683</a>



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- 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
- 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.