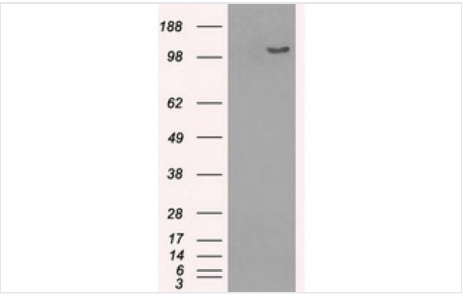
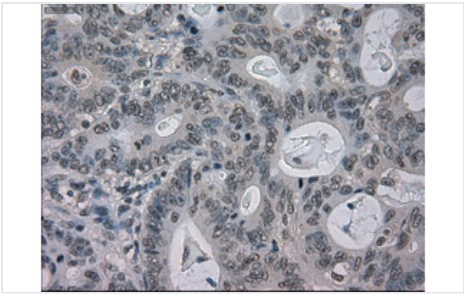
BUB1B Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	BUB1B, Monoclonal Antibody
Full Product Name	BUB1B antibody
Product Gene Name	anti-BUB1B antibody
Product Synonym Names	Monoclonal BUB1B; Anti-BUB1B; Budding uninhibited by benzimidazoles 1 homolog beta; SSK1; BUBR1; Bub1A; MAD3L; hBUBR1; BUB1beta; BUB1B; BUBB 1; BUBB-1
Clonality	Monoclonal
Isotype	IgG1
Clone Number	11D7
Host	Mouse
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Purity/Purification	BUB1B antibody was purified by affinity chromatography.
Concentration	500 ug-1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	121,386 Da
OMIM	176430
Cross-Reactivity	Human, Monkey
Immunogen	BUB1B antibody was raised in mouse using a protein expressed in 293T cell transfected with human BUB1B expression vector as the immunogen.
Product Categories/Family for anti-BUB1B antibody	DNA & RNA
Applications Tested/Suitable for anti-BUB1B antibody	Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-BUB1B antibody	IF: 1:100 IHC: 1:50 WB: 1:1000
Related Product Information for anti-BUB1B antibody	MBS830456 is an antibody targeting BUB1B. Also known as BUB1B antibody. Host: Mouse. Mouse monoclonal BUB1B antibody
Other Notes	Small volumes of anti-BUB1B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-BUB1B antibody
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant BUB1B protein (Right) or empty vector (Left) detected with BUB1B antibody



Immunohistochemistry (IHC) of anti-BUB1B antibody
Immunohistochemical analysis of BUB1B protein in paraffin embedded Adenocarcinoma of Human colon tissue using BUB1B antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BUB1B. It may not necessarily be applicable to this product.

NCBI GI #	294992075
NCBI GeneID	701
NCBI Accession #	ADF57218.1
UniProt Secondary Accession #	O60501; O60627; O60758; O75389; Q59HH6; Q8WV50; Q96KM4; B2R6U0; B4DL09; B4DLG3
UniProt Related Accession #	O60566
NCBI Official Full Name	BUB1B, partial
NCBI Official Synonym Full Names	BUB1 mitotic checkpoint serine/threonine kinase B
NCBI Official Symbol	BUB1B
NCBI Official Synonym Symbols	MVA1; SSK1; BUBR1; Bub1A; MAD3L; hBUBR1; BUB1beta
UniProt Protein Name	Mitotic checkpoint serine/threonine-protein kinase BUB1 beta
UniProt Synonym Protein Names	MAD3/BUB1-related protein kinase; hBUBR1; Mitotic checkpoint kinase MAD3L; Protein SSK1
Protein Family	Mitotic checkpoint serine/threonine-protein kinase
UniProt Gene Name	BUB1B
UniProt Synonym Gene Names	BUBR1; MAD3L; SSK1; hBUBR1
UniProt Entry Name	BUB1B_HUMAN
NCBI Protein Information	mitotic checkpoint serine/threonine-protein kinase BUB1 beta
NCBI Summary for BUB1B	This gene encodes a kinase involved in spindle checkpoint function. The protein has been localized to the kinetochore and plays a role in the inhibition of the anaphase-promoting complex/cyclosome (APC/C), delaying the onset of anaphase and ensuring proper chromosome segregation. Impaired spindle checkpoint function has been found in many forms of cancer. [provided by RefSeq, Jul 2008]

UniProt Comments for BUB1B	BUB1B: Essential component of the mitotic checkpoint. Required for normal mitosis progression. The mitotic checkpoint delays anaphase until all chromosomes are properly attached to the mitotic spindle. One of its checkpoint functions is to inhibit the activity of the anaphase-promoting complex/cyclosome (APC/C) by blocking the binding of CDC20 to APC/C, independently of its kinase activity. The other is to monitor kinetochore activities that depend on the kinetochore motor CENPE. Required for kinetochore localization of CENPE. Negatively regulates PLK1 activity in interphase cells and suppresses centrosome amplification. Also implicated in triggering apoptosis in polyploid cells that exit aberrantly from mitotic arrest. May play a role for tumor suppression. Interacts with CENPE, CENPF, mitosin, PLK1 and BUB3. Part of a complex containing BUB3, CDC20 and BUB1B. Interacts with anaphase-promoting complex/cyclosome (APC/C). Interacts with CASC5. Induced during mitosis. Highly expressed in thymus followed by spleen. Preferentially expressed in tissues with a high mitotic index. Kinase activity stimulated by CENPE. Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. BUB1 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Protein kinase, Ser/Thr (non-receptor); Kinase, protein; EC 2.7.11.1; Protein kinase, Other; Tumor suppressor; Other group; BUB family Chromosomal Location of Human Ortholog: 15q15 Cellular Component: kinetochore; anaphase-promoting complex; perinuclear region of cytoplasm; cytoplasm; microtubule organizing center; outer kinetochore of condensed chromosome; spindle midzone; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; ATP binding; protein kinase activity Biological Process: mitosis; cell proliferation; negative regulation of ubiquitin-protein ligase activity during mitotic cell cycle; regulation of ubiquitin-protein ligase activity during mitotic cell cycle; cell division; apoptosis; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; mitotic cell cycle checkpoint; mitotic cell cycle spindle assembly checkpoint; mitotic cell cycle; protein amino acid phosphorylation; mitotic metaphase/anaphase transition Disease: Mosaic Variegated Aneuploidy Syndrome 1; Premature Chromatid Separation Trait
Research Articles on BUB1B	**1.** Bub1, but not BubR1, enhances binding of Bub3 to phosphorylated kinetochores.
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