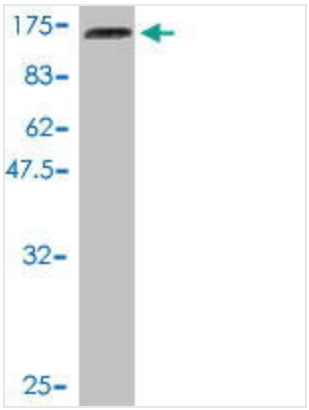
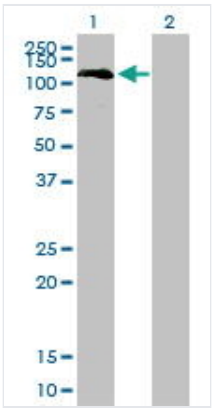
BUB1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

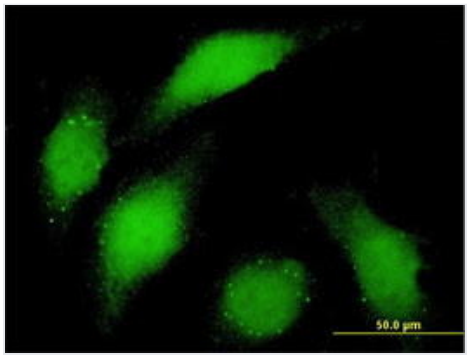
Product Name	BUB1, Monoclonal Antibody
Full Product Name	BUB1 (Mitotic Checkpoint Serine/Threonine-protein Kinase BUB1, hBub1, BUB1A, BUB1L) (AP)
Product Gene Name	anti-BUB1 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	4C3-4C9
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human BUB1.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri
Molecular Weight	120,002 Da
Immunogen	Full length recombinant corresponding to aa1-1085 from human BUB1 (AAH28201.1) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MDTPENVLQMLEAHMQSYKGNDPLGVWERYIQWVEENFPENKEYLITLLEHLMKEFLDKKKYHNDPRFISYCLKFAEYNSDLRQFFEFLYNHGIGTLSSPI
Conjugate	AP
Product Categories/Family for anti-BUB1 antibody	Antibodies; DNA Repair/Damage
Applications Tested/Suitable for anti-BUB1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-BUB1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-BUB1 antibody	MBS6130263 is an antibody targeting BUB1. Also known as BUB1 (Mitotic Checkpoint Serine/Threonine-protein Kinase BUB1, hBub1, BUB1A, BUB1L
Other Notes	Small volumes of anti-BUB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa



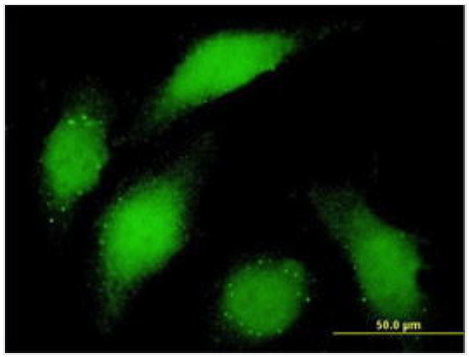
Western Blot (WB) of anti-BUB1 antibody
Western Blot detection against Immunogen (145.09kD).



Western Blot (WB) of anti-BUB1 antibody
Western Blot analysis of BUB1 expression in transfected 293T cell line by BUB1 monoclonal antibody. Lane 1: BUB1 transfected lysate (122.4kD). Lane 2: Non-transfected lysate.



Immunofluorescence (IF) of anti-BUB1 antibody
Immunofluorescence of monoclonal antibody to BUB1 on HeLa cell. [antibody concentration 10ug/ml].



Testing Data of anti-BUB1 antibody
Detection limit for recombinant GST tagged BUB1 is ~0.03ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BUB1. It may not necessarily be applicable to this product.

NCBI GI #	20381367
NCBI GeneID	699
NCBI Accession #	BC028201
NCBI Related Accession #	AAH28201.1
UniProt Secondary Accession #	O43430; O43643; O60626; Q53QE4; E9PC26; F5GXI5
UniProt Related Accession #	O43683
NCBI Official Full Name	Homo sapiens budding uninhibited by benzimidazoles 1 homolog (yeast), mRNA
NCBI Official Synonym Full Names	BUB1 mitotic checkpoint serine/threonine kinase
NCBI Official Symbol	BUB1
NCBI Official Synonym Symbols	BUB1A; BUB1L; hBUB1
Protein Family	Checkpoint serine/threonine-protein kinase
NCBI Protein Information	mitotic checkpoint serine/threonine-protein kinase BUB1

NCBI Summary for BUB1	This gene encodes a serine/threonine-protein kinase that play a central role in mitosis. The encoded protein functions in part by phosphorylating members of the mitotic checkpoint complex and activating the spindle checkpoint. This protein also plays a role in inhibiting the activation of the anaphase promoting complex/cyclosome. This protein may also function in the DNA damage response. Mutations in this gene have been associated with aneuploidy and several forms of cancer. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
Research Articles on BUB1	**1.** Bub1-Plk1-mediated phosphorylation of Cdc20 constitutes an anaphase-promoting complex or cyclosome-inhibitory mechanism that is parallel, but not redundant, to mitotic checkpoint complex formation.
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