



# Human BUB1 peptide (DAG-P0251)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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]
<b>Specificity</b>	High expression in testis and thymus, less in colon, spleen, lung and small intestine. Expressed in fetal thymus, bone marrow, heart, liver, spleen and thymus. Expression is associated with cells/tissues with a high mitotic index.
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. BUB1 subfamily.Contains 1 BUB1 N-terminal domain.Contains 1 protein kinase domain.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">BUB1 BUB1 mitotic checkpoint serine/threonine kinase [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	BUB1

<b>Synonyms</b>	BUB1; BUB1 mitotic checkpoint serine/threonine kinase; BUB1A; BUB1L; hBUB1; mitotic checkpoint serine/threonine-protein kinase BUB1; mitotic spindle checkpoint kinase; putative serine/threonine-protein kinase; budding uninhibited by benzimidazoles 1 homolog; BUB1 budding uninhibited by benzimidazoles 1 homolog;
<b>Entrez Gene ID</b>	<a href="#">699</a>
<b>mRNA Refseq</b>	<a href="#">NM_001278616.1</a>
<b>Protein Refseq</b>	<a href="#">NP_001265545.1</a>
<b>UniProt ID</b>	B4DYG2
<b>Chromosome Location</b>	2q14
<b>Pathway</b>	Aurora B signaling, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; M Phase, organism-specific biosystem; Mitotic Anaphase, organism-specific biosystem; Mitotic Metaphase and Anaphase, organism-specific biosystem; Mitotic Prometaphase, organism-specific biosystem; Oocyte meiosis, organism-specific biosystem; Ooc
<b>Function</b>	ATP binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;