BUB1 Antibody

Catalog No: #35280

Package Size: #35280-1 50ul #35280-2 100ul



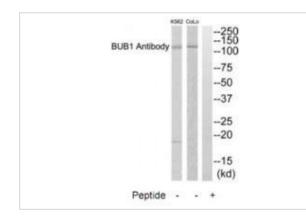
Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description	
Product Name	BUB1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific
	immunogen.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total BUB1 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human BUB1.
Target Name	BUB1
Other Names	BUB1A; BUB1L; hBUB1; MBUB1; Mitotic checkpoint BUB1
Accession No.	Swiss-Prot: O43683NCBI Gene ID: 699
Uniprot	O43683
GeneID	699;
SDS-PAGE MW	120kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide
	and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from COLO205 cells, using BUB1 antibody #35280.

Background

Serine/threonine-protein kinase that performs 2 crucial functions during mitosis: it is essential for spindle-assembly checkpoint signaling and for correct chromosome alignment. Has a key role in the assembly of checkpoint proteins at the kinetochore, being required for the subsequent localization of CENPF, BUB1B, CENPE and MAD2L1. Required for the kinetochore localization of PLK1. Plays an important role in defining SGOL1 localization and thereby affects sister chromatid cohesion. Acts as a substrate for anaphase-promoting complex or cyclosome (APC/C) in complex with its activator CDH1 (APC/C-Cdh1). Necessary for ensuring proper chromosome segregation and binding to BUB3 is essential for this function. Can regulate chromosome segregation in a kinetochore-independent manner. Can phosphorylate BUB3. The BUB1-BUB3 complex plays a role in the inhibition of APC/C when spindle-assembly checkpoint is activated and inhibits the ubiquitin ligase activity of APC/C by phosphorylating its activator CDC20. This complex can also phosphorylate MAD1L1. Kinase activity is essential for inhibition of APC/CCDC20 and for chromosome alignment but does not play a major role in the spindle-assembly checkpoint activity. Mediates cell death in response to chromosome missegregation and acts to suppress spontaneous tumorigenesis.

Lengauer C., Genomics 58:181-187(1999).

Taylor S.S., J. Cell Sci. 117:1577-1589(2004).

Yu H., Mol. Biol. Cell 17:3705-3716(2006).

Note: This product is for in vitro research use only