



#24180

Catalog Number: 24180-1, 24180-2

Amount: 50µg/50µl, 100µg/100µl

Swiss-Prot No. : O43683

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20°C/1 year

Immunogen: The antiserum was produced against synthesized peptide derived from Human BUB1

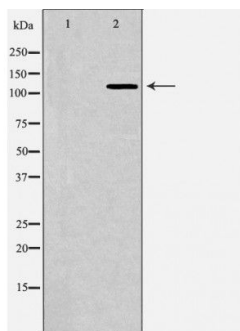
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Specificity/Sensitivity: BUB1 antibody detects endogenous levels of total BUB1 protein

Reactivity: Human, Mouse, Rat

Applications:

Predicted MW: 122kd WB:1:500~1:2000 IHC:1:50-200



Western blot analysis of extracts of HeLa cell line, using BUB1 antibody.

Background : The Mitotic Checkpoint Complex (MCC), which contains Bub1, Bub1b, Bub3, Mad2, and Cdc20, controls chromosome segregation and monitors kinetochore-microtubule interactions . During mitosis, the MCC complex inhibits the ubiquitin ligase activity of the Anaphase Promoting Complex/Cyclosome (APC/C), thereby preventing cells with unaligned chromosomes from prematurely entering anaphase . Research studies have shown that Bub1b and Bub1 kinases are mutated in several types of human malignancies including hematopoietic, colorectal, lung, and breast cancers . Biallelic mutations in Bub1b have been found in mosaic variegated aneuploidy syndrome and premature chromatid separation syndrome . Bub1b mouse germline knockouts are embryonic lethal with heterozygous animals displaying genetic instability, early aging phenotypes, and increased cancer susceptibility . Bub3 binds both Bub1 and Bub1b, facilitating their recruitment to kinetochores , and is required for functional microtubule-kinetochore interactions .