BUB1 Rabbit Polyclonal Antibody

**Product data:**

- **Product Type:** Primary Antibodies
- **Applications:** IF, WB
- **Recommend Dilution:** WB: 2 - 4 ug/mL, ICC: 10 ug/mL, IF: 20 ug/mL
- **Reactivity:** Human, Mouse
- **Host:** Rabbit
- **Isotype:** IgG
- **Clonality:** Polyclonal
- **Immunogen:** Bub1 antibody was raised against a 19 amino acid peptide from near the amino terminus of human Bub1.
- **Formulation:** PBS containing 0.02% sodium azide.
- **Concentration:** 1 mg/ml
- **Purification:** Affinity chromatography purified via peptide column
- **Storage:** Store at -20°C as received.
- **Stability:** Stable for 12 months from date of receipt.
- **Gene Name:** BUB1 mitotic checkpoint serine/threonine kinase
- **Database Link:** NP_004327 Entrez Gene 12235 Mouse Entrez Gene 699 Human
- **Background:** Bub1 was initially identified as the mammalian homolog to the yeast protein through a cDNA screen. Bub1 encodes a kinase involved in the formation of the spindle checkpoint, an important mechanism that ensures high fidelity mitotic chromosome segregation. It is thought to be required for assembly of a functional inner centromere, sister chromatid cohesion via targeting of the Shugoshim protein and metaphase congression. Bub1 functions by phosphorylating cdc20, a member of the mitotic checkpoint complex and activating the spindle checkpoint. A related protein kinase Bub3 interacts with Bub1 and targets it to kinetochores prior to chromosome alignment. Mutations in bub1 have been associated with aneuploidy and several forms of cancer.

**Synonyms:** BUB1A; BUB1L; hBUB1

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation
Product images:

Western blot analysis of bub1 in A-20 lysate with bub1 antibody at (A) 2 and (B) 4 ug/mL.

Immunocytochemistry of Bub1 in A20 cells with Bub1 antibody at 10 ug/mL.

Immunofluorescence of Bub1 in A20 cells with Bub1 antibody at 20 ug/mL.