

## Rabbit BUB1 Polyclonal Antibody | anti-BUB1 antibody

BUB1 Polyclonal Antibody

|                              |                       |                                        |                                                           |
|------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA36832</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|

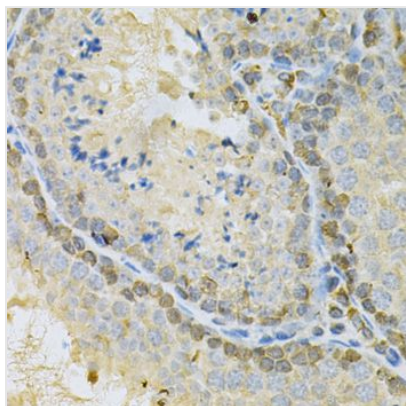
### PRODUCT SYNONYMS

BUB1; Polyclonal Antibody; BUB1 Polyclonal Antibody; BUB1A; BUB1L; hBUB1; anti-BUB1 antibody

### PRODUCT SPECIFICATIONS

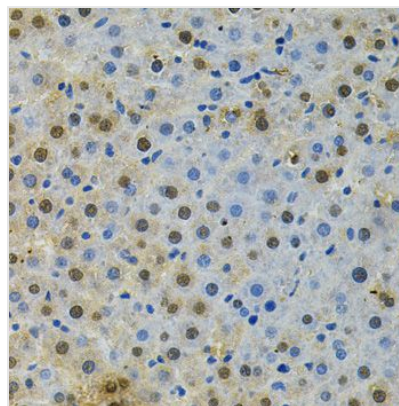
|                                                |                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                     |
| Clonality                                      | Polyclonal                                                                                                                                            |
| Isotype                                        | IgG                                                                                                                                                   |
| Purity/Purification                            | Affinity Purification                                                                                                                                 |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                |
| Sequence Length                                | 1085                                                                                                                                                  |
| Applicable Applications for anti-BUB1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                         |
| Species                                        | Human                                                                                                                                                 |
| Immunogen                                      | Recombinant Protein                                                                                                                                   |
| Immunogen                                      | Recombinant protein of human BUB1                                                                                                                     |
| Calculated Molecular Weight                    | 122kDa                                                                                                                                                |
| Preparation and Storage                        | Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles.<br>Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |

### IMAGES



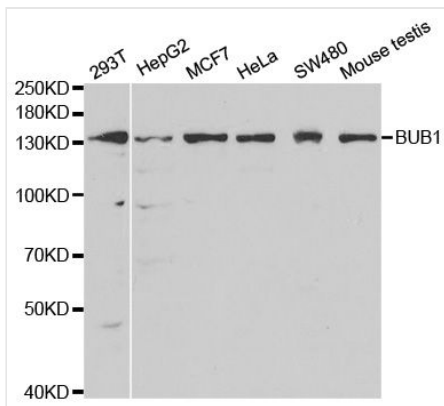
#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse testis using BUB1 Antibody at dilution of 1:200 (40x lens).



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat liver using BUB1 Antibody at dilution of 1:200 (40x lens).



#### WB (Western Blot)

Western blot analysis of extracts of various cell lines, using BUB1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

## ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-BUB1 antibody</b> | The Mitotic Checkpoint Complex (MCC), which contains Bub1, Bub1b, Bub3, Mad2, and Cdc20, controls chromosome segregation and monitors kinetochore-microtubule interactions (1). 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 (2). Research studies have shown that Bub1b and Bub1 kinases are mutated in several types of human malignancies including hematopoietic, colorectal, lung, and breast cancers (3). Biallelic mutations in Bub1b have been found in mosaic variegated aneuploidy syndrome and premature chromatid separation syndrome (4). Bub1b mouse germline knockouts are embryonic lethal with heterozygous animals displaying genetic instability, early aging phenotypes, and increased cancer susceptibility (5). Bub3 binds both Bub1 and Bub1b, facilitating their recruitment to kinetochores (6), and is required for functional microtubule-kinetochore interactions (7). |
| <b>Product Categories/Family for anti-BUB1 antibody</b>   | <a href="#">Polyclonal</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                                                             |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">8134347</a>                                                                                                                                                                                                                     |
| <b>NCBI GeneID</b>                      | <a href="#">699</a>                                                                                                                                                                                                                         |
| <b>UniProt Accession #</b>              | <a href="#">O43683</a> ; <a href="#">O43430</a> ; <a href="#">O43643</a> ; <a href="#">O60626</a> ; <a href="#">Q53QE4</a> ; <a href="#">E9PC26</a> ; <a href="#">F5GX15</a>                                                                |
| <b>Molecular Weight</b>                 | 1085                                                                                                                                                                                                                                        |
| <b>NCBI Official Full Name</b>          | Mitotic checkpoint serine/threonine-protein kinase BUB1                                                                                                                                                                                     |
| <b>NCBI Official Synonym Full Names</b> | BUB1 mitotic checkpoint serine/threonine kinase                                                                                                                                                                                             |
| <b>NCBI Official Symbol</b>             | BUB1                                                                                                                                                                                                                                        |
| <b>NCBI Official Synonym Symbols</b>    | BUB1A; BUB1L; hBUB1                                                                                                                                                                                                                         |
| <b>NCBI Protein Information</b>         | 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>UniProt Protein Name</b>             | Mitotic checkpoint serine/threonine-protein kinase BUB1                                                                                                                                                                                     |
| <b>UniProt Gene Name</b>                | <b>BUB1</b>                                                                                                                                                                                                                                 |
| <b>UniProt Synonym Gene Names</b>       | BUB1L; hBUB1                                                                                                                                                                                                                                |
| <b>UniProt Entry Name</b>               | BUB1_HUMAN                                                                                                                                                                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bub1-antibody-immunohistochemistry-western-blot-elisa/36832>