

# Anti-Bub1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

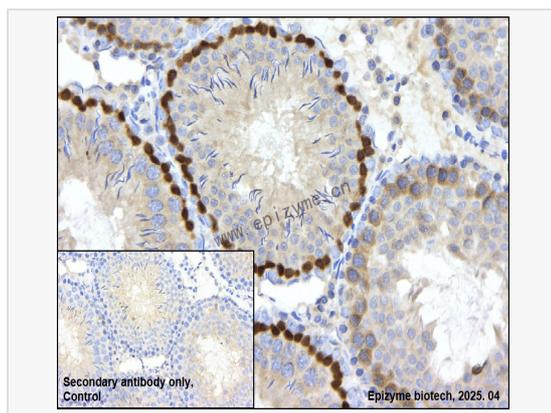
Catalog # R015514

## Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	21E99I37
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Bub1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Bub1 Rabbit mAb [21E99I37] is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

Synonyms	Bub1; BUB1 budding uninhibited by benzimidazoles 1 homolog; BUB1 budding uninhibited by benzimidazoles 1 homolog (yeast); BUB1 mitotic checkpoint serine/threonine kinase; BUB1, <i>S. cerevisiae</i> , homolog of; BUB1_HUMAN; BUB1A; BUB1L; Budding uninhibited by benzimidazoles 1 (yeast homolog); Budding uninhibited by benzimidazoles 1 homolog; Budding uninhibited by benzimidazoles 1, <i>S. cerevisiae</i> , homolog of; hBUB1; Homolog of mitotic checkpoint gene BUB1; Mitotic checkpoint gene BUB1; Mitotic checkpoint serine/threonine protein kinase BUB1; Mitotic checkpoint serine/threonine-protein kinase BUB1; Mitotic spindle checkpoint kinase; Putative serine/threonine protein kinase.
Calculated MW	Calculated MW: 122 kDa; Observed MW: 122 kDa
Uniprot ID	O43683
Gene ID	699
Background	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].
Cellular Location	Nucleus. Chromosome > centromere > kinetochore. Nuclear in interphase cells. Accumulates gradually during G1 and S phase of the cell cycle, peaks at G2/M, and drops dramatically after mitosis. Localizes to the outer kinetochore. Kinetochore localization is required for normal mitotic timing and checkpoint response to spindle damage and occurs very early in prophase. AURKB, CASC5 and INCENP are required for kinetochore localization.



Immunohistochemistry - Anti-Bub1 Rabbit mAb [21E99I37]

Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015514 at 1:200 dilution

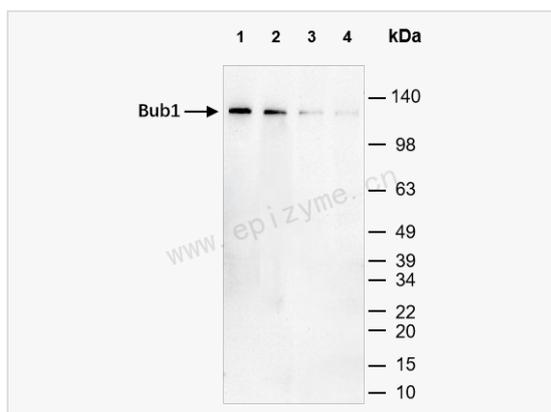
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Western Blot - Anti-Bub1 Rabbit mAb [21E99I37]

All lanes: R015514 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 3: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates

Lane 4: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 122 kDa

Observed band size: 122 kDa

Developed using the ECL technique (Cat. No. SQ201).