PRODUCT INFORMATION

Catalog number ATGA0319

Clone No. AT2H6

Product type Monoclonal Antibody

UnitProt No. 043684

NCBI Accession No. NP_004716

Alternative Names Mitotic checkpoint protein BuB3, BuB3L, hBuB3

PRODUCT SPECIFICATION

Antibody Host Mouse

Reacts With Human

Concentration 1mg/ml (determined by BCA assay)

Formulation Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen Recombinant human BUB3 (1-328aa) purified from E. coli

Isotype IgG2b kappa

Purification Note By protein-A affinity chromatography

Application

ELISA,WB

Usage

The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000



Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

BUB3 (budding uninhibited by benzimidazoles 3 homolog) is a conserved component of the mitotic spindle assembly complex (MCC). It contains five WD repeat domains and forms cell cycle constitutive complexes with BUB1 and BUBR1. BUB3 is essential for the kinetochore localization of BUB1 and BUBR1. As a component of the MCC, BUB3 is involved in the essential spindle checkpoint pathway that operates during early embryogenesis. The spindle checkpoint pathway functions to postpone the initiation of anaphase until chromosomes are properly attached to the spindle. This acts to ensure accurate chromosome segregation. In addition, BUB3 plays a role in regulating the establishment of correct kinetochore-microtubule attachments.

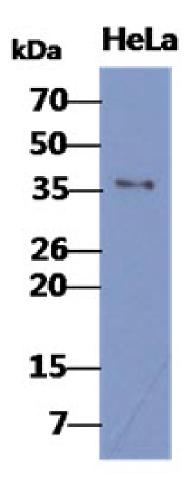
General References

Loqarinho. E., et al. (2008) Mol Biol Cell 19(4): 1798-1813 Warren. C.D., et al. (2002) Mol Biol Cell 13(9): 3029-3041 Taylor. S.S., et al. (1998) J Cell Biol 142(1): 1-11

DATA

Western blot analysis (WB)

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The cell lysates of HeLa(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human BUB3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

