

Human Bub3 antibody

Catalog Number: ATGA0319

PRODUCT INFORMATION

Catalog number

ATGA0319

Clone No.

AT2H6

Product type

Monoclonal Antibody

UnitProt No.

O43684

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

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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

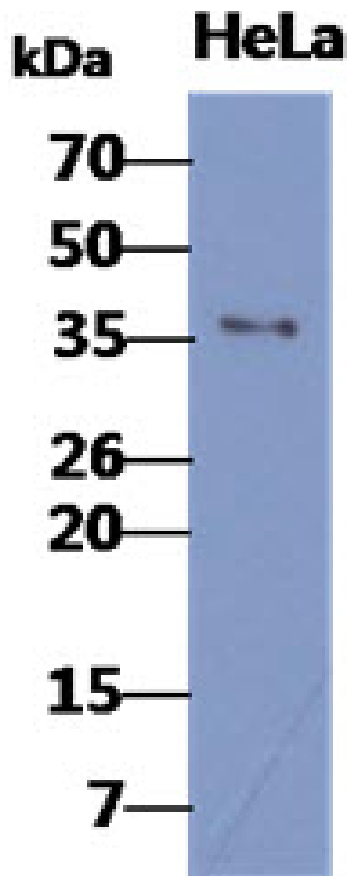
Loqarinho. E., et al. (2008) Mol Biol Cell 19(4): 1798-1813
Warren. C.D., et al. (2002) Mol Biol Cell 13(9): 3029-3041
Taylor. S.S., et al. (1998) J Cell Biol 142(1): 1-11

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.