Datasheet for ABIN129514

anti-BUB1 antibody (AA 281-419)

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Overview

Quantity:	100 µg
Target:	BUB1
Binding Specificity:	AA 281-419
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

Product Details

Purpose:	BUB1 Antibody
Immunogen:	Immunogen: This protein A purified monoclonal antibody was produced by repeated immunizations with a recombinant protein corresponding to amino acid residues 281-419 of human BUB1 protein. Immunogen Type: Recombinant Protein
Clone:	14H5
Isotype:	IgG1
Cross-Reactivity (Details):	This Protein A purified antibody is directed against human BUB1 protein.
Characteristics:	Synonyms: mouse anti-BUB1 antibody, Budding uninhibited by benzimidazoles 1 homolog antibody, hBUB1 antibody, Mitotic checkpoint serine/threonine protein kinase BUB1 antibody
Purification:	The product was purified from tissue culture supernatant by chromatography.

Product Details

Sterility:	Sterile filtered

Target Details

Target:	BUB1
Alternative Name:	BUB1 (BUB1 Products)
Background:	Background: BUB1 (also called Mitotic checkpoint serine/threonine-protein kinase BUB1and BUB1A) is a kinase involved in spindle checkpoint function. The kinase functions in part by phosphorylating BUB3, a member of the miotic checkpoint complex, and activating the spindle checkpoint. Mutations in this gene have been associated with aneuploidy and several forms of cancer. BUB1 is autophosphorylated when cells enter mitosis. This protein is localized to the nucleus in interphase cells. Kinetochore localization is required for normal mitotic timing and checkpoint response to spindle damage. BUB1 is highly expressed in testis and thymus, less in colon, spleen, lung and small intestine. Expression is associated with cells/tissues with a high mitotic index.
Gene ID:	699
NCBI Accession:	NP_004327
UniProt:	O43683

Application Details

Application Notes:	Application Note: This protein A purified antibody has been tested for use in immunoprecipitation, immunofluorescence staining and western blot and is capable of detecting endogenous protein. Specific conditions for reactivity should be optimized by the end user. Expect a predominant band at ~ 160 kDa corresponding to full-length protein by western blotting in the appropriate cell lysate or extract. The use of HeLa whole cell lysates prepared using a RIPA buffer is recommended as a positive control. For IF microscopy use cells grown on cover slips fixed with 3.5 % paraformaldehyde in PBS at pH 6.8 OR 100 % methanol at -20° C. Permeabilize fixed cells with 0.5 % Triton X-100. Western Blot Dilution: 1:500 - 1:2,000 Immunoprecipitation Dilution: 1:200 ELISA Dilution: 1:5,000 - 1:20,000 IF Microscopy Dilution: 1:500 - 1:2,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months