

Datasheet for ABIN7601640
anti-BUB1 antibody (AA 40-257)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	BUB1
Binding Specificity:	AA 40-257
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BUB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Bub1 Antibody Picoband®
Immunogen:	E.coli-derived mouse Bub1 recombinant protein (Position: D40-K257).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Bub1 Antibody Picoband® (ABIN7601640). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	BUB1
Alternative Name:	Bub1 (BUB1 Products)
Background:	Synonyms: RNA-binding protein FUS, 75 kDa DNA-pairing protein, Oncogene FUS, Oncogene TLS, POMp75, Translocated in liposarcoma protein, FUS, TLS, Tissue Specificity: Ubiquitous. Background: BUB1, also known as mitotic checkpoint serine/threonine kinase, is an enzyme that in humans is encoded by the BUB1 gene. It is mapped to 2q13. BUB1 is first identified in genetic screens of <i>Saccharomyces cerevisiae</i>. The protein is bound to kinetochores and plays a key role in the establishment of the mitotic spindle checkpoint and chromosome congression. The mitotic checkpoint kinase is evolutionary conserved in organisms as diverse as <i>Saccharomyces cerevisiae</i> and humans. Loss-of-function mutations or absence of BUB1 has been reported to result in aneuploidy, chromosomal instability (CIN) and premature senescence. The protein kinase BUB1 possesses versatile and distinct functions during the cell cycle, mainly in the SAC and chromosome alignment during metaphase.
Molecular Weight:	122 kDa
Gene ID:	12235
UniProt:	O08901

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Mouse ELISA, 0.1-0.5 µg/mL, - 1. "Entrez Gene: BUB1 BUB1 budding uninhibited by benzimidazoles 1 homolog (yeast)" 2. Cahill DP, Lengauer C, Yu J, Riggins GJ, Willson JK, Markowitz SD, Kinzler KW, Vogelstein B (March 1998). "Mutations of mitotic checkpoint genes in human cancers". <i>Nature</i> 392 (6673): 300-3. 3. Roberts BT, Farr KA, Hoyt MA (December 1994). "The <i>Saccharomyces cerevisiae</i> checkpoint gene BUB1 encodes a novel protein kinase". <i>Mol. Cell. Biol.</i> 14 (12): 8282-91.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Handling

Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.01 mg 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 at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.