

Anti-Bub1 Picoband Antibody
Catalog # ABO11836**Specification**

Anti-Bub1 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q13685
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Mitotic checkpoint serine/threonine-protein kinase BUB1(BUB1) detection. Tested with WB in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Bub1 Picoband Antibody - Additional Information**Gene ID 14****Other Names**

Angio-associated migratory cell protein, AAMP

Calculated MW

46751 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Cell membrane. Cytoplasm.

Tissue Specificity

Expressed in metastatic melanoma, liver, skin, kidney, heart, lung, lymph node, skeletal muscle and brain, and also in A2058 melanoma cells and activated T-cells (at protein level). Expressed in blood vessels. Strongly expressed in endothelial cells, cytotrophoblasts, and poorly differentiated. colon adenocarcinoma cells found in lymphatics. .

Protein Name

Mitotic checkpoint serine/threonine-protein kinase BUB1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E.coli-derived human Bub1 recombinant protein (Position: V731-K1085). Human Bub1 shares 81% amino acid (aa) sequence identity with mouse Bub1.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. BUB1 subfamily.

Anti-Bub1 Picoband Antibody - Protein Information

Name AAMP

Function

Plays a role in angiogenesis and cell migration. In smooth muscle cell migration, may act through the RhoA pathway.

Cellular Location

Cell membrane. Cytoplasm.

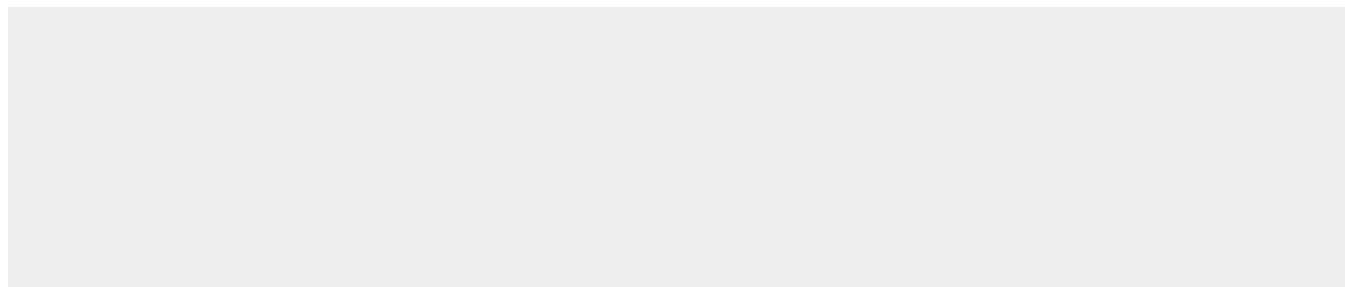
Tissue Location

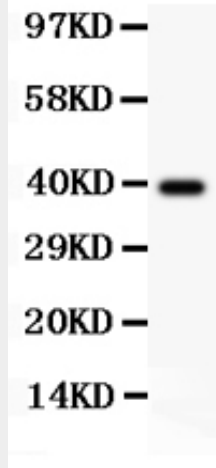
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Anti-Bub1 Picoband Antibody - Protocols

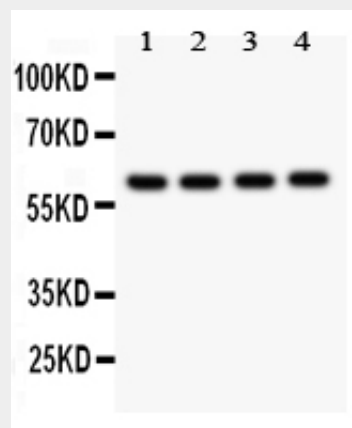
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Bub1 Picoband Antibody - Images



Anti-Bub1 Picoband antibody, ABO11836-1.jpg All lanes: Anti BUB1 (ABO11836) at 0.5ug/ml WB: Recombinant Human BUB1 Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD



Anti-Bub1 Picoband antibody, ABO11836-2.jpg All lanes: Anti BUB1 (ABO11836) at 0.5ug/ml
Lane 1: Rat Testis Tissue Lysate at 50ug
Lane 2: Rat Ovary Tissue Lysate at 50ug
Lane 3: Rat Liver Tissue Lysate at 50ug
Lane 4: JURKAT Whole Cell Lysate at 40ug
Lane 5: COLO320 Whole Cell Lysate at 40ug
Lane 6: HEPG2 Whole Cell Lysate at 40ug
Predicted bind size: 122KD Observed bind size: 122KD

Anti-Bub1 Picoband Antibody - 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 *Saccharomyces cerevisiae*. 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 *Saccharomyces cerevisiae* 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.