

Anti-Bub1 Picoband Antibody

Catalog # ABO11836

Specification

Anti-Bub1 Picoband Antibody - Product Information

Application WB
Primary Accession O13685
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 r°Constitution, 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

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.

Anti-Bub1 Picoband Antibody - Protocols

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

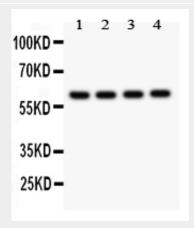
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-Bub1 Picoband Antibody - Images





Anti-Bub1 Picoband antibody, ABO11836-1.jpgAll lanes: Anti BUB1 (ABO11836) at 0.5ug/mlWB: Recombinant Human BUB1 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD



Anti-Bub1 Picoband antibody, ABO11836-2.jpgAll lanes: Anti BUB1 (ABO11836) at 0.5ug/mlLane 1: Rat Testis Tissue Lysate at 50ugLane 2: Rat Ovary Tissue Lysate at 50ugLane 3: Rat Liver Tissue Lysate at 50ugLane 4: JURKAT Whole Cell Lysate at 40ugLane 5: COLO320 Whole Cell Lysate at 40ugLane 6: HEPG2 Whole Cell Lysate at 40ugPredicted 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.