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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Sheep anti Mouse Bub1 beta-IN

exalpa.com/products/sheep-anti-mouse-bub1-beta-in/X1163P

Catalog number: **X1163P**

Isotype	IgG
Product Type	Polyclonal Antibody
Units	250 µg
Host	Sheep
Species Reactivity	Mouse
Application	Immunohistochemistry Western Blotting

Background

Bub1, a mitotic checkpoint gene first identified in yeast, ensures proper chromosome segregation by delaying anaphase until chromosomes are properly aligned on the mitotic spindle. Mutations in the mitotic spindle assembly checkpoint genes, like yeast Bub1, cause cells to exit mitosis without proper chromosome attachment/alignment, resulting in aneuploidy. Aneuploidy is a form of genetic instability involved in cancer. Recently, a novel homologue of the murine Bub1 gene has been identified and named Bub1b. The yeast mitotic checkpoint pathway is unresolved, but the mammalian pathway remains even less clear. It is important to investigate the role of the Bub1 genes in the mammalian checkpoint as they have been implicated in carcinogenesis, namely colon carcinomas. The aneuploidy and chromosome instability characterizing some tumors is thought to be caused by mutations in Bub1.

Synonyms: Mitotic checkpoint kinase MAD3L

Source

Sheep were immunized with recombinant protein corresponding to amino acids 232-603 of the mouse Bub1b protein.

Product

Product Form: Unconjugated

Formulation: Provided as solution in phosphate buffered saline with 0.08% sodium azide

Purification Method: Ammonium Sulfate Precipitation

Concentration: See vial for concentration

Applications

X1163P antibody detects Bub1b in mitotic NIH/3T3 cells, separated by immunoprecipitation. Western blot analysis (1-10 µg/ml) detects a 130 kDa band. Optimal antibody concentration should be evaluated by serial dilutions.

Functional Analysis: Western Blotting

Positive Control: Mitotic NIH/3T3 cells

Storage

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

Product Stability: Products are stable for one year from purchase when stored properly

Shipping Conditions: Ship at ambient temperature, freeze upon arrival

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Exalpha Biologicals accepts no liability for any inaccuracies or omissions in this information.

References

1. Myrie, K.A., et al. Mutation and expression analysis of human Bub1 and Bub1b in aneuploid breast cancer cell lines. *Cancer Lett.* 2000, 152, 193-199. 2. Davenport, J.W., et al. The mouse mitotic checkpoint gene bub1b, a novel bub1 family member, is expressed in a cell cycle-dependent manner. *Genomics* 1999, 55, 113-117.

Protein Reference(s)

Database Name: UniProt

Accession Number: Q9Z1S0

Species Accession: Human

Safety Datasheet(s) for this product:

[EA_Sodium Azide](#)



" Immunoprecipitation/ Western blot analysis using Bub1b-IN antibody on NIH/3T3 cells synchronized to obtain mostly mitotic cells as determined by flow cytometry."

