



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



**Bub1b-NT. Sheep Polyclonal Antibody**  
Mitotic checkpoint kinase MAD3L

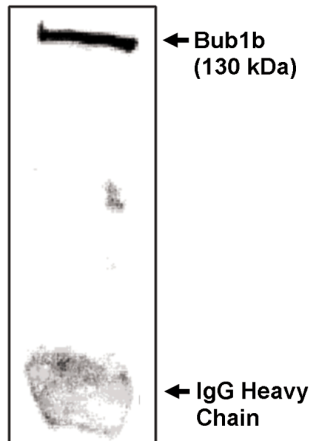
**BACKGROUND**

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.

**IMMUNOGEN**

Recombinant protein corresponding to amino acids 10-190 of the mouse Bub1b protein.

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



**ORDERING INFORMATION**

**CATALOG NUMBER**

X1162P

**SIZE**

250  $\mu$ g

**FORM**

Unconjugated

**HOST/CLONE**

Sheep

**FORMULATION**

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

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG

**APPLICATIONS**

Western Blot, Immunohistochemistry

**SPECIES REACTIVITY**

Mouse

**ACCESSION NUMBER**

Mouse Q9Z1S0

**POSITIVE CONTROL/TISSUE EXPRESSION**

Mitotic NIH/3T3 cells

**COMMENTS**

Antibody detects Bub1b in mitotic cells separated from NIH/3T3 cells by IP/Western blot analysis (1-10  $\mu\text{g/ml}$ ). Detects a 130 kDa band. Optimal concentration should be evaluated by serial dilutions.

**PURIFICATION**

Ammonium Sulfate Precipitation

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at  $-20^{\circ}\text{C}$ . Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**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.

**PRODUCT SPECIFIC REFERENCES**