



# SZABO SCANDIC

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## 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

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**Datasheet for 009-001-U24S****Tubulin beta (TUBB1) protein-GST fusion****Overview**

|                      |  |
|----------------------|--|
| <b>Description:</b>  | Tubulin beta (TUBB1) recombinant protein-GST fusion protein - 009-001-U24S |
| <b>Item No.:</b>     | 009-001-U24S   |
| <b>Size:</b>         | 20 µg  |
| <b>Origin:</b>       | Human  |
| <b>Expressed in:</b> | E. coli  |

**Product Details**

|                           |   |
|---------------------------|---|
| <b>Background:</b>        | TUBB1 or tubulin-beta 1 protein is a major constituent of microtubules. TUBB1 interaction with microtubule-associated proteins (MAPs) such as tau is fundamental for microtubule structure and function (1). Previous work suggested that the "microtubule binding domain" of tau (composed of three or four imperfect 18-amino acid repeats, separated by 13- or 14-amino acid inter-repeat regions) can bind to the C-terminal ends of both alpha and beta tubulin monomers. Studies revealed that TUBB1 is the target of various antitubulin agents used in the treatment of cancer. Subsequent studies have also concluded that TUBB1 mutations in clinical samples are rare, and unlikely to contribute to drug resistance (2). TUBB1 Protein is ideal for investigators involved in Signaling Proteins, Microtubule/Actin Associated Proteins, Cardiovascular Disease, and Neurobiology research. |
| <b>Synonyms:</b>          | M40, TUBB, TUBB5, MGC16435, MGC117247, OK/SW-cl.56, Tubulin beta chain, Tubulin beta-5 chain  |
| <b>Species of Origin:</b> | Human   |
| <b>Expressed in:</b>      | E. coli   |
| <b>Type:</b>              | Recombinant Protein   |

**Target Details**

|                            |  |
|----------------------------|--|
| <b>Gene Name:</b>          | TUBB   |
| <b>Purity/Specificity:</b> | Recombinant full-length human TUBB1 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >85% by densitometry. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">NCBI - NM_178014</a></li></ul>   |

## Application Details

**Application Note:** TUBB1 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. TUBB1 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~76kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**WB:** User Optimized

## Formulation

**Physical State:** Liquid (sterile filtered)

**Concentration:** 0.2 µg/µL

**Buffer:** See application note.

## Shipping & Handling

**Shipping Condition:** Dry Ice

**Storage Condition:** Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

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