

**Datasheet for 009-001-S70S****p73 alpha protein-GST fusion****Overview**

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|----------------------|-----------------------------------------------------------------|
| <b>Description:</b>  | p73 alpha recombinant protein-GST fusion protein - 009-001-S70S |
| <b>Item No.:</b>     | 009-001-S70S                                                    |
| <b>Size:</b>         | 20 µg                                                           |
| <b>Origin:</b>       | Human                                                           |
| <b>Expressed in:</b> | Sf9 cells                                                       |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Background:</b>        | p73α is a member of the p53 family of transcription factors that are involved in cellular responses to stress and development. P73 has high sequence similarity to p53 and p63, which allows p63 and p73 to transactivate p53-responsive genes causing cell cycle arrest and apoptosis. P73 is a stress-response gene and a downstream effector in the p53 pathway (1). The p73 protein is expressed at very low levels in normal tissues and is differentially expressed in a number of tumors. p73 is the components of a mismatch repair-dependent apoptosis pathway which contributes to cisplatin-induced cytotoxicity (2). p73α Protein is ideal for investigators involved in Signaling Proteins, Cell Cycle Proteins, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, Cell Cycle, Cellular Stress, Inflammation, JNK/SAPK Pathway, Metabolic Disorder, Neurobiology, and p38 Pathway research. |
| <b>Synonyms:</b>          | TP73, TAp73alpha, Tumor protein p73, p53-like transcription factor, p53-related protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Expressed in:</b>      | Sf9 cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Type:</b>              | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Target Details**

|                            |                                                                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | TP73                                                                                                                                                                                             |
| <b>Purity/Specificity:</b> | Full-length recombinant human p73α was expressed by baculovirus in Sf9 cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">NCBI - NM_005427</a></li></ul>                                                                                                               |

## Application Details

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| <b>Application Note:</b> | p73 $\alpha$ 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. p73 $\alpha$ Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~110kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                 |
| <b>WB:</b>               | User Optimized                                                                                                                                                                                                                                                                                                                                                  |

## Formulation

|                        |                               |
|------------------------|-------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)     |
| <b>Concentration:</b>  | 0.2 $\mu\text{g}/\mu\text{L}$ |
| <b>Buffer:</b>         | See application note.         |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                          |
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| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                                  |
| <b>Storage Condition:</b>  | Store product at $-70^{\circ}\text{C}$ . 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. |
| <b>Expiration:</b>         | 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.

