

Datasheet for 009-001-S14S**HSP70 protein-GST fusion****Overview**

Description:	HSP70 recombinant protein-GST fusion protein - 009-001-S14S
Item No.:	009-001-S14S
Size:	20 µg
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	HSP70 is a member of the heat shock protein family and is synthesized by cells of many organisms in response to stress (1). HSP70 is found mostly but not exclusively in the nucleus of unstressed cells. For several hours after a short heat shock, however, it is strongly concentrated in nucleoli (2). Nucleoli are transiently damaged by such a heat shock: their morphology changes and assembly and export of ribosomes is blocked for several hours. HSP70 helps to stabilize the morphological changes of the nucleoli. HSP70 Protein is ideal for investigators involved in Signaling Proteins, Cell Stress & Chaperone Proteins, Apoptosis/Autophagy, Cancer, and Cellular Stress research.
Synonyms:	HSPA1A, HSP72, HSPA1, HSPA1B, HSP70-1, Heat shock 70 kDa protein 1A/1B , Heat shock 70 kDa protein 1/2, HSP70-1/HSP70-2, HSP70.1/HSP70.2
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	HSPA1AB
Purity/Specificity:	Recombinant full-length human HSP70 was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry.
Relevant Links:	• NCBI - NM_005345

Application Details

Application Note:	HSP70 Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. HSP70 Protein is suitable for use in Western Blot and ATPase Assay. Expect a band approximately ~70kDa 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.

