

Datasheet for 009-001-E57S**HSP40 protein-GST fusion****Overview**

Description:	HSP40 recombinant protein-GST fusion protein - 009-001-E57S
Item No.:	009-001-E57S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	HSP40 is a member of heat shock proteins (HSPs) which are synthesized in cells in response to heat shock and other metabolic stresses and provide a transient state of thermotolerance. HSP40 is localized faintly throughout the cell in non-heat-shocked cells and accumulates in the nuclei and nucleoli in heat-shocked cells (1). The intracellular localization of HSP40 is very similar to that of HSP70. Overexpression of HSP40 reduces aggregate formation and suppresses apoptosis in a neuronal cell model of spinal and bulbar muscular atrophy (inherited neurodegenerative diseases caused by polyglutamine expansion) (2). HSP40 is ideal for investigators involved in Signaling Proteins, Cell Stress & Chaperone Proteins, Cancer, Cellular Stress, and Inflammation research.
Synonyms:	DNAJB1, HSPF1, DnaJ homolog subfamily B member 1, DnaJ protein homolog 1, Heat shock 40 kDa protein 1, HSP40, Heat shock protein 40, Human DnaJ protein 1, hDj-1
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	DNAJB1
Purity/Specificity:	Recombinant full-length human HSP40 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry.
Relevant Links:	• NCBI - NM_006145

Application Details

Application Note:	HSP40 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. HSP40 Protein is suitable for use in Western Blot. Expect a band approximately ~65kDa 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.

