

Datasheet for 009-001-S09S**HSP10 protein-GST fusion****Overview**

Description:	HSP10 recombinant protein-GST fusion protein - 009-001-S09S
Item No.:	009-001-S09S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	HSP10 is a 10-kDa stress-inducible mitochondrial protein which is a member of the heat shock proteins. HSP10 is synthesized at elevated rates in cultured rat hepatoma cells challenged with heat shock or amino acid analogues. HSP10 has been implicated in multiple disease states in humans. In myocardial samples from patients with chronic atrial fibrillation, cardiomyocytes respond to chronic atrial fibrillation with increased expression of HSP10 and HSP60 (1). HSP10 is also overexpressed early in prostate carcinogenesis. HSP10 is also overexpressed in large bowel carcinomas and it may have diagnostic and prognostic significance in the management of this tumour (2). HSP10 Protein is ideal for investigators involved in Signaling Proteins, Cell Stress & Chaperone Proteins, Cardiovascular Disease, and Cellular Stress research.
Synonyms:	CPN10, GROES, HSPE1, 10 kDa heat shock protein, mitochondrial, Hsp10, 10 kDa chaperonin, Chaperonin 10, Early-pregnancy factor
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	HSPE1
Purity/Specificity:	Recombinant full-length human HSP10 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_002157

Application Details

Application Note:	HSP10 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. HSP10 Protein is suitable for use in Western Blot. Expect a band approximately ~36kDa 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.

