

Datasheet for 109-401-E57**HSP40 (HDJ1) Antibody****Overview**

Description:	Anti-HSP40 (HDJ1) (RABBIT) Antibody - 109-401-E57
Item No.:	109-401-E57
Size:	100 µL
Applications:	IF, IP, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	DnaJ/Hsp40 proteins have been preserved throughout evolution and are important for protein translation, folding, unfolding, translocation, and degradation, primarily by stimulating the ATPase activity of chaperone proteins, Hsp70s. Because the ATP hydrolysis is essential for the activity of Hsp70s, DnaJ/Hsp40 proteins actually determine the activity of Hsp70s by stabilizing their interaction with substrate proteins. DnaJ/Hsp40 proteins all contain the J domain through which they bind to Hsp70s. Hsp40, also known as HDJ1, is a basic mammalian 40kDa heat shock protein which is not only homologous to the bacterial heat shock protein (DnaJ), but also yeast DnaJ-related proteins such as SCJ1, Sec63/Npl1, YDJ1 and SIS1. Hsp 40 is inducible by stress including heat after which it moves from the cytoplasm to the nucleus and nucleoli; an intracellular pattern similar to Hsc70/Hsp70, the mammalian homologues of the bacterial heat shock protein, DnaK.
Synonyms:	Rabbit anti-Hsp40 Antibody, rabbit anti-heat shock protein 40 antibody, Mitochondrial protein import protein MAS5, Yeast dnaJ protein 1, YDJ1, MAS5, YNL064C, N2418, YNL2418C
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	DNAJB1
Reactivity:	Human

Immunogen Type:	Recombinant Protein
Immunogen:	Hsp40 Antibody was produced from whole rabbit serum prepared by repeated immunizations raised against recombinant purified human hsp40.
Purity/Specificity:	Anti-Hsp40 Antibody was prepared from monospecific antiserum by delipidation and defibrination. This polyclonal antibody is specific for human Hsp40 protein. A BLAST analysis was used to suggest cross-reactivity with Hsp40 from Human based on 100% homology with the immunizing sequence. Cross-reactivity with Hsp40 from other sources has not been determined. Heat Shock research.
Relevant Links:	• NCBI - NP_006136.1 • GenelD - 3337 • UniProtKB - P25685

Application Details

Tested Applications:	IF, IP, WB
Application Note:	Anti-Hsp40 Antibody has been tested in WB, IP, and IF. Expect a band approximately ~40kDa protein corresponding to the molecular mass of Hsp40 on SDS PAGE immunoblots. Also detects recombinant Hsp40. 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.
IP:	User Optimized
WB:	1: 1500-2,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	85 mg/mL by Refractometry

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of rabbit anti-Hsp40 antibody. Lane 1: HeLa cell lysates. Lane 2: molecular weight markers. Load: 35 µg per lane. Primary antibody: Hsp40 antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 38 kDa for Hsp40. Other band(s): none.

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.