



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-HSP40, Hdj1 Antibody [3B9.E6]

Mouse Anti-Human HSP40, Hdj1 Monoclonal IgG1  
Catalog No. SMC-145



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

HSP40, Hdj1 Antibody

### Description

Mouse Anti-Human HSP40, Hdj1 Monoclonal IgG1

### Species Reactivity

Human, Mouse, Rat

### Applications

WB, IHC, ICC/IF, IP, ELISA

### Antibody Dilution

WB (1:2000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

### Host Species

Mouse

### Immunogen Species

Human

### Immunogen

Recombinant Protein HSP40 (Hdj1)

### Concentration

1 mg/ml

### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

## Properties

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### Storage Buffer

PBS pH7.2, 50% glycerol, 0.09% sodium azide

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

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Protein G Purified

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**Clonality**

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Monoclonal

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**Clone Number**

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3B9.E6

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**Isotype**

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IgG1

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**Specificity**

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Detects ~40kDa. Does not cross-react with HDJ2 or YDJ1.

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**Cite This Product**

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Mouse Anti-Human HSP40 Monoclonal, Clone 3B9.E6 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-145)

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**Certificate Of Analysis**

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0.5 µg/ml of SMC-145 was sufficient for detection of HSP40 (HDJ1) in 15 µg of HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

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**Biological Description**

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**Alternative Names**

DNAJ1 Antibody, NDAJB1 Antibody, HDJ1 Antibody, HSP40 Antibody, HSPF1 Antibody, DnaJ homolog subfamily B member 1 Antibody, Dna J protein homolog 1 Antibody, Heat shock 40 kDa protein 1 Antibody, HSP40 Antibody, heat shock protein 40 Antibody, Human DnaJ protein 1 Antibody, hDj-1 Antibody

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**Research Areas**

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Cancer, Heat Shock

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**Cellular Localization**

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Cytoplasm, Nucleus

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**Accession Number**

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NP\_006136.1

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**Gene ID**

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3337

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**Swiss Prot**

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P25685

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**Scientific Background**

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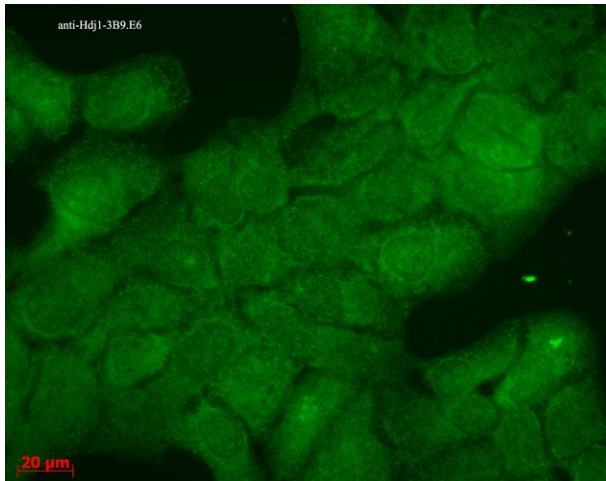
Human HSP40/DnaJ proteins comprise a large protein family, members of which feature the J domain (named after the bacterial DnaJ protein) (1). The J-domain spans the first 75 N-terminal amino acids and is separated from the C-terminal by a glycine/phenylalanine-rich domain (2). Members of the HSP40/DnaJ family play diverse roles in many cellular processes, such as folding, translocation, degradation and assembly of multi-protein complexes. In particular, Hdj1, the first human HSP40/DnaJ protein identified, plays an important role in protein translation and folding, as well as in the regulation of HSP70 function (3). HSP40 stimulates the ATPase activity of HSP70 which in turn causes conformational changes of the unfolded proteins (4, 5). The HSP40-HSP70-unfolded protein complex further binds to co-chaperones Hip, Hop and HSP90 which leads to protein folding, or components of protein degradation machinery CHIP and BAG-1 (6). Some studies have shown that the difference between HDJ1 and type 1 DNAJ proteins including HDJ2 and yeast Ydj1 is the result of the possession of a zinc finger domain by the latter, which

helps in the function of protein folding. (7, 8).

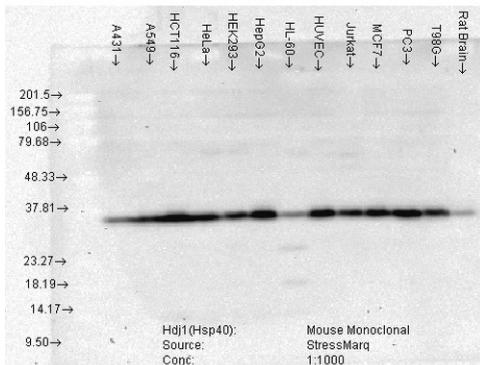
## References

1. Cheetham M.E. and Caplan A.J. (1998) Cell Stress Chaperones 3: 2836.
2. Fan C.Y., et al. (2003) Cell Stress Chaperones 8: 309316.
3. Sohn S.Y., Kim S.B., Kim J., and Ahn B.Y. (2006) J Gen Virol. 87(7): 1883-91.
4. Liberek K. et al. (1991) Proc. Natl. Acad. Sci. USA 88: 28742878.
5. Cyr D.M., et al. (1992) J Biol Chem. 267: 2092720931.
6. Höhfeld J., et al. (2001) EMBO Rep. 2: 885890.
7. Terda K., et al. (1997) J Cell Biol. 139: 1089-1095.
8. Lu Z. and Cyr D.M. (1998) J Biol Chem. 273: 27824-27830.

## Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 3B9.E6 (SMC-145). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-Hsp40 Monoclonal Antibody (SMC-145) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Western Blot analysis of Human Cell lysates showing detection of Hsp40 protein using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 3B9.E6 (SMC-145). Load: 15 μg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp40 Monoclonal Antibody (SMC-145) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

## Product Citations (0)

Currently there are no citations for this product.

## Reviews

There are no reviews yet.