



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-HSP40, YDJ1 Antibody [2A7.H6]

Mouse Anti-Yeast HSP40, YDJ1 Monoclonal IgG1 Kappa  
Catalog No. SMC-166



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

HSP40, YDJ1 Antibody

### Description

Mouse Anti-Yeast HSP40, YDJ1 Monoclonal IgG1 Kappa

### Species Reactivity

Yeast

### Applications

WB, IP, ELISA

### Antibody Dilution

WB (1:2000); optimal dilutions for assays should be determined by the user.

### Host Species

Mouse

### Immunogen Species

Yeast

### Immunogen

Full length protein HSP40 (YDJ1)

### 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

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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2A7.H6

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**Isotype**

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IgG1 Kappa

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**Specificity**

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Detects ~40kDa. Yeast specific. Does not cross react with Human, Mouse or Rat.

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**Cite This Product**

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Mouse Anti-Yeast HSP40 Monoclonal, Clone 2A7.H6 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-166)

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**Certificate Of Analysis**

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0.5 µg/ml of SMC-166 was sufficient for detection of 50 ng YDJ1 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**

DnaJ (HSP40) homolog subfamily B member 1 antibody, DNAJ 1 antibody, DNAJ B1 antibody, DnaJ homolog subfamily B member 1 antibody, DnaJ protein homolog 1 antibody, DNAJ1 antibody, DNAJB 1 antibody, DNAJB1 antibody, DNAJB1 protein antibody, DNJB1\_HUMAN antibody, HDJ 1 antibody, HDJ-1 antibody, HDJ1 antibody, Heat shock 40 kDa protein 1 antibody, Heat shock 40kD protein 1 antibody, Heat shock protein 40 antibody, HSP 40 antibody, HSP40 antibody, HSPF 1 antibody, HSPF1 antibody, Human DnaJ protein 1 antibody, Radial spoke 16 homolog B antibody, RSPH16B antibody, Sis1 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\_014335.1

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**Gene ID**

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855661

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**Swiss Prot**

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P25491

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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).

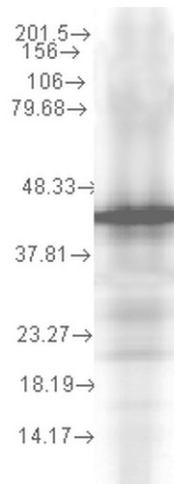
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## References

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.

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## Product Images



Western Blot analysis of Yeast recombinant cell lysate showing detection of Hsp40 protein using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 2A7.H6 (SMC-166). Load: 15  $\mu$ g protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp40 Monoclonal Antibody (SMC-166) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

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## Product Citations (0)

Currently there are no citations for this product.

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## Reviews

There are no reviews yet.