

OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES

Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com TA309369

OriGene EU

Acris Antibodies GmbH

Schillerstr. 5 32052 Herford GERMANY

Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

Monoclonal Antibody to Hsp40 / Ydj1 - Purified

Catalog No.: TA309369
Quantity: 0.1 mg
Concentration: 1.0 mg/ml

Background: 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). There are two main types of Hsp40; type 1 DNAJ proteins including HDJ2 and yeast YdjI; type II includes yeast Sis1 and human Hdj1. Whereas type I possesses a zinc finger domain which helps in the function of protein folding. (3, 4), type II does not. Members of the Hsp40/DnaJ family play diverse roles in many cellular processes, such as folding, translocation, degradation and assembly of multi-protein complexes. Hsp40 stimulates the ATPase activity of Hsp70 which in turn causes conformational changes of the unfolded proteins (5, 6). 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 (7).

 Uniprot ID:
 P39102

 NCBI:
 NP 013191

 GeneID:
 850779

 Host / Isotype:
 Mouse / IgG1

 Recommended
 AM03095PU-N

Recommended Isotype Controls:

Clone: 1G10.H8

Immunogen: Full length protein yeast HSP40 (YDJ1)

Format: State: Liquid Ig fraction

Purification: Protein G chromatography

Buffer System: 0.09 % sodium azide in 50 % glycerol

Applications: Western blot: 1/2000.

Immunoprecipitation.

ELISA.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: This antibody detects Hsp40 T ~40kDa.

Species Reactivity: Tested: Yeast. Does not cross react with human, mouse, and rat.

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Storage: Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid

repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Cheetham M.E. and Caplan A.J. (1998) Cell Stress Chaperones 3: 28–36.

2. Fan C.Y., et al. (2003) Cell Stress Chaperones 8: 309-316.

3. Terda K., et al. (1997) J Cell Biol. 139: 1089-1095.

4. Lu Z. and Cyr D.M. (1998) J Biol Chem. 273: 27824-27830.

5. Liberek K. et al. (1991) Proc. Natl. Acad. Sci. USA 88: 2874-2878.

6. Cyr D.M., et al. (1992) J Biol Chem. 267: 20927-20931.

7. Höhfeld J., et al. (2001) EMBO Rep. 2: 885-890.

Pictures: Western blot analysis of Hsp40 YDJ1 in a

human cell line mix using a 1:1000

dilution of TA309369.

