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- Mindermengenzuschlag
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- Expressversand

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Anti-HSP40, YDJ1 Antibody [1G10.H8]

Mouse Anti-Yeast HSP40, YDJ1 Monoclonal IgG1 Kappa
Catalog No. SMC-150



Discovery through partnership | Excellence through quality

Overview

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 yeast 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

Storage Buffer

50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

1G10.H8

Isotype

IgG1 Kappa

Specificity

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

Cite This Product

Mouse Anti-Yeast HSP40 Monoclonal, Clone 1G10.H8 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-150)

Certificate Of Analysis

0.5 µg/ml of SMC-150 was sufficient for detection of 50 ng YDJ1 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

DNAJA2 Antibody, CPR3 Antibody, HIRIP4 Antibody, DNAJ Antibody, DNJ3 Antibody, DJ3 Antibody, RDJ2 Antibody, HIRa interacting protein4 Antibody

Research Areas

Cancer, Heat Shock

Cellular Localization

Cytoplasm, Nucleus

Accession Number

NP_014335.1

Gene ID

855661

Swiss Prot

P25491

Scientific Background

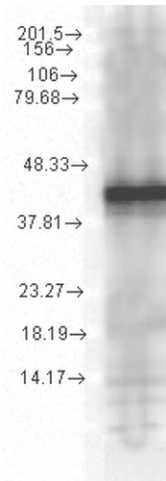
Human HSP40/DnaJ proteins comprise a large protein family, members of which feature the J domain (named after the bacterial DnaJ protein) (1). The J-domain spans the first 75 N-terminal amino acids and is separated from the C-terminal by a glycine/phenylalanine-rich domain (2). There are two main types of HSP40; type I DNAJ proteins including HDJ2 and yeast Ydj1; 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).

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. 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: 28742878.
 6. Cyr D.M., et al. (1992) J Biol Chem. 267: 2092720931.
 7. Höhfeld J., et al. (2001) EMBO Rep. 2: 885890.
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Product Images



Western Blot analysis of Yeast Cell lysates showing detection of Hsp40 protein using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 1G10.H8 (SMC-150). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp40 Monoclonal Antibody (SMC-150) 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.