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HSP40, YDJ1 Antibody
HSP40, YDJ1 Antibody, Clone 2A7.H6
Catalog # ASM10099

Specification

HSP40, YDJ1 Antibody - Product Information

Application	**WB**
Primary Accession	P25491
Other Accession	NP_014335.1
Host	**Mouse**
Isotype	**IgG1 Kappa**
Reactivity	**Yeast**
Clonality	**Monoclonal**

Description
Mouse Anti-Yeast HSP40, YDJ1 Monoclonal IgG1 Kappa

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

Other Names
DnaJ (HSP40) homolog subfmaily 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

Immunogen
Full length protein HSP40 (YDJ1)

Purification
Protein G Purified

Storage	**-20ºC**

Storage Buffer
50% glycerol, 0.09% sodium azide

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
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.

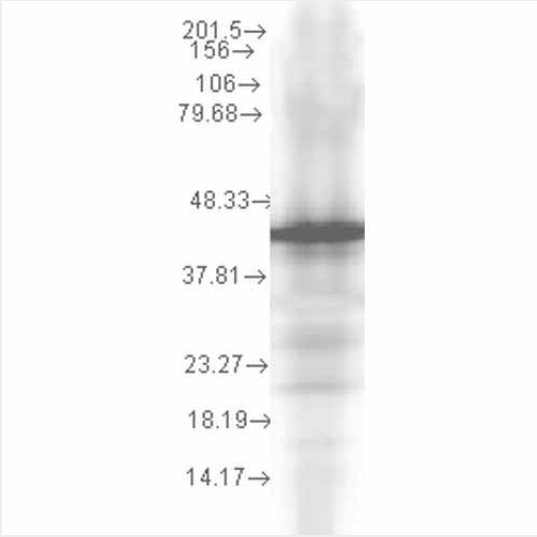
Cellular Localization
Cytoplasm | Nucleus

HSP40, YDJ1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HSP40, YDJ1 Antibody - Images



Western Blot analysis of Yeast recombinant cell lysate showing detection of Hsp40 protein using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 2A7.H6 (ASM10099). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp40 Monoclonal Antibody (ASM10099) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

HSP40, YDJ1 Antibody - 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). 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 YdjI is the result of the possession of a zinc finger domain by the latter, which helps in the function of protein folding. (7, 8).

HSP40, YDJ1 Antibody - References

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. 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: 2874–2878.

5. Cyr D.M., et al. (1992) J Biol Chem. 267: 20927–20931.
6. Höhfeld J., et al. (2001) EMBO Rep. 2: 885–890.
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.