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HSP40, YDJ1 Antibody
HSP40, YDJ1 Antibody, Clone 1G10.H8
Catalog # ASM10071

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 product. Does not cross react with Human, Mouse or Rat.

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

Immunogen
Full length protein yeast HSP40 (YDJ1)

Purification
Protein G Purified

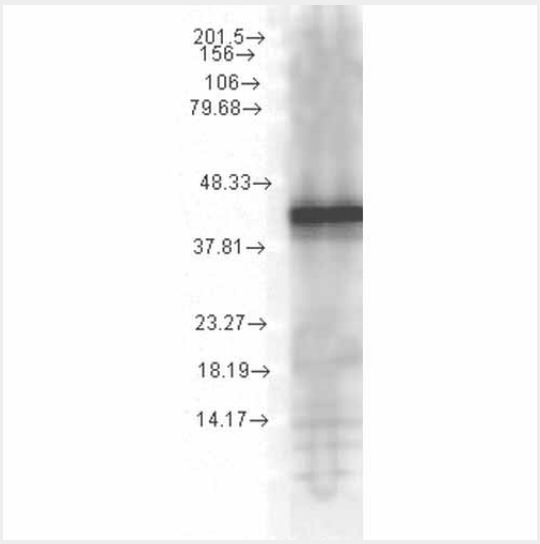
Storage	**-20ºC**

Storage Buffer
50% glycerol, 0.09% sodium azide

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
0.5 µg/ml of SMC-150 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



Western Blot analysis of Yeast Cell lysates showing detection of Hsp40 protein using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 1G10.H8 (ASM10071). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp40 Monoclonal Antibody (ASM10071) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

HSP40, YDJ1 Antibody - Protocols

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). 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

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

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).

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. 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.