

HSP40, Hdj1 Antibody
HSP40, Hdj1 Antibody, Clone 3B9.E6
Catalog # ASM10065**Specification****HSP40, Hdj1 Antibody - Product Information**

Application	WB, IHC, ICC, IP, E
Primary Accession	P25685
Other Accession	NP_006136.1
Host	Mouse
Isotype	IgG1
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Format	FITC

Description

Mouse Anti-Human HSP40, Hdj1 Monoclonal IgG1

Target/Specificity

Detects ~40kDa. Does not cross-react with HDJ2 or YDJ1.

Other Names

DNAJ1 Antibody, NDAJB1 Antibody, HDJ1 Antibody, HSP40 Antibody, HSPF1 Antibody, DnaJ homolog subfamily B member 1 Antibody, Dna J protein homolog 1 Antibody, Heat shock 40 kDa protein 1 Antibody, HSP40 Antibody, heat shock protein 40 Antibody, Human DnaJ protein 1 Antibody, hDj-1 Antibody

Immunogen

Recombinant Protein HSP40 (Hdj1)

Purification

Protein G Purified

Storage

-20°C

Storage Buffer

PBS pH7.2, 50% glycerol, 0.09% sodium azide

Shipping Temperature

Blue Ice or 4°C

Certificate of Analysis

0.5 µg/ml of SMC-145 was sufficient for detection of HSP40 (HDJ1) in 15 µg of HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization

Cytoplasm | Nucleus

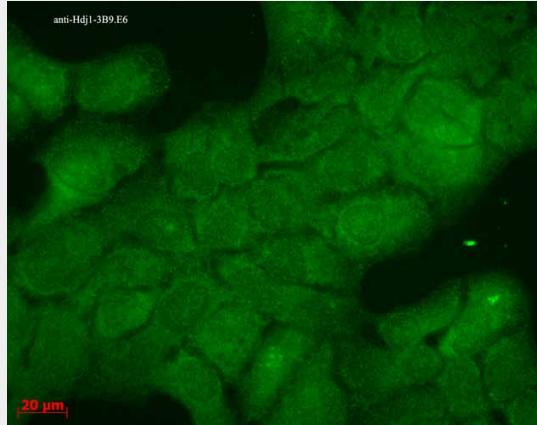
HSP40, Hdj1 Antibody - Protocols

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

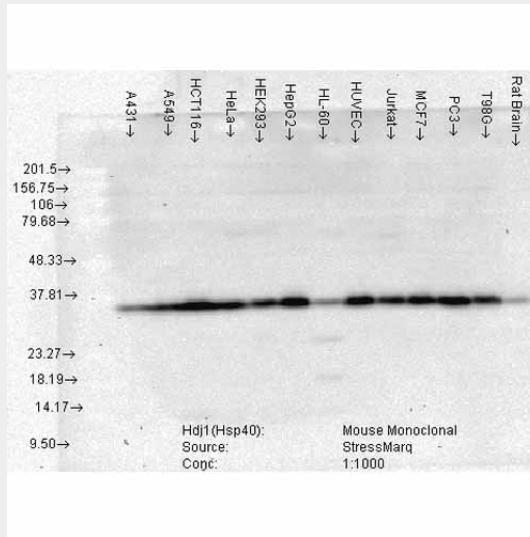
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HSP40, Hdj1 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 3B9.E6 (ASM10065). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-Hsp40 Monoclonal Antibody (ASM10065) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



HSP40, Hdj1 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 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).

HSP40, Hdj1 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. Terada K., et al. (1997) *J Cell Biol.* 139: 1089-1095.
8. Lu Z. and Cyr D.M. (1998) *J Biol Chem.* 273: 27824-27830.