

## Product Datasheet

### HSP40, Hdj1 Antibody: Biotin (orb147279)

<b>Description</b>	Mouse monoclonal to Hsp40, Hdj1 (Biotin). Human Hsp40/Dnaj proteins comprise a large protein family, members of which feature the J domain (named after the bacterial Dnaj protein). The J-domain spans the first 75 N-terminal amino acids and is separated from the C-terminal by a glycine/phenylalanine-rich domain. 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. HSP40 stimulates the ATPase activity of HSP70 which in turn causes conformational changes of the unfolded proteins. 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. 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. ..
<b>Species/Host</b>	Mouse
<b>Reactivity</b>	Human, Mouse, Rat
<b>Conjugation</b>	Biotin
<b>Tested Applications</b>	ELISA, ICC, IF, IHC, WB
<b>Immunogen</b>	Recombinant Protein HSP40 (Hdj1)
<b>Target</b>	HSP40
<b>Preservatives</b>	136.36mM Ethanolamine, and 9.55mM Sodium Bicarbonate in 95.45% PBS
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Conjugated antibodies should be stored according to the product label
<b>Note</b>	For research use only

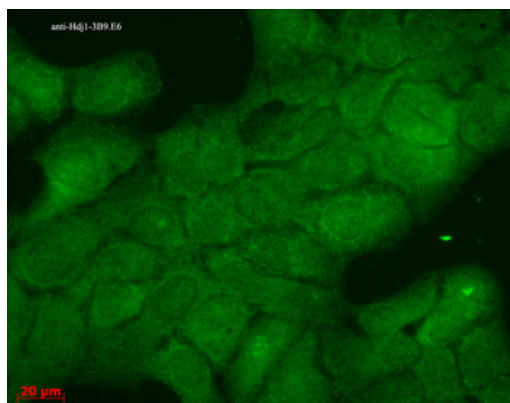
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<b>Application notes</b>	0.5 µg/ml of SMC-145 was sufficient for detection of HSP40 (HDJ1) in 15 µg of HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
<b>Isotype</b>	IgG1
<b>Clonality</b>	Monoclonal
<b>Clone Number</b>	3B9.E6
<b>MW</b>	40kDa
<b>Uniprot ID</b>	<b>P25685</b>
<b>NCBI</b>	<b>NP_006136.1</b>
<b>Entrez</b>	<b>3337</b>
<b>Dilution Range</b>	WB (1:2000), ICC/IF (1:100)
<b>Expiration Date</b>	12 months from date of receipt.



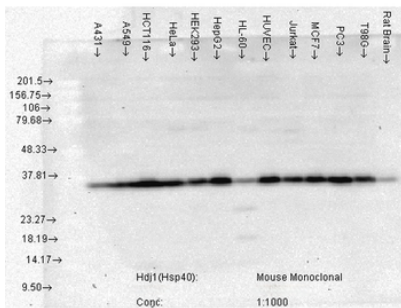
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 3B9.E6. Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-Hsp40 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC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

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Western Blot analysis of Human Cell lysates showing detection of Hsp40 protein using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 3B9.E6. Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp40 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

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