

Product Datasheet

HSP40 Antibody (APC) (orb147278)

Catalog Number	orb147278
Category	Antibodies
Description	Mouse monoclonal to Hsp40, Hdj1 (APC). 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. ..
Target	HSP40
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG1
Conjugation	APC
Reactivity	Human, Mouse, Rat
Concentration	1 mg/ml

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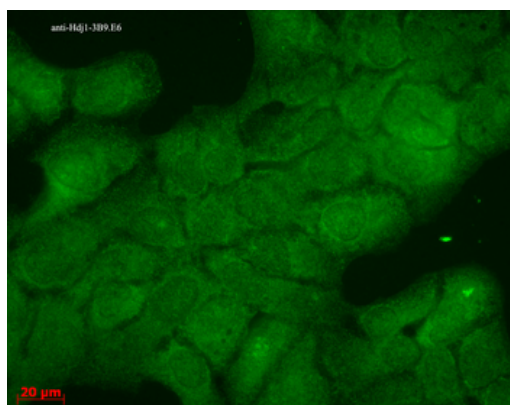
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Buffer/Preservatives	95.46mM Phosphate, 2.48mM MES and 2mM EDTA
Purification	Protein G Purified
Immunogen	Recombinant Protein HSP40 (Hdj1)
UniProt ID	P25685
MW	40kDa
Tested applications	ELISA, ICC, IF, IHC, IP, WB
Dilution range	WB (1:2000), ICC/IF (1:100)
Application notes	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.
Clone Number	3B9.E6
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Entrez	3337
NCBI	NP_006136.1



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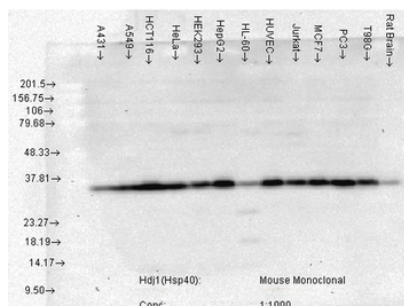
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Western Blot analysis of Human Cell lysates showing detection of Hsp40 protein using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 3B9.E6. Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp40 Monoclonal Antibody at 1:1000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

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