

Product Datasheet

HSP40, YDJ1 Antibody: APC (orb147329)

Description	Mouse monoclonal to Hsp40, YDJ1 (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. There are two main types of Hsp40; type I DNAJ proteins including HDJ2 and yeast Ydj1; type II includes yeast Sis1 and human Hdj1. Whereas type I possesses a zinc finger domain which helps in the function of protein folding. , 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 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..
Species/Host	Mouse
Reactivity	Yeast
Conjugation	APC
Tested Applications	ICC, IF, IHC
Immunogen	Full length protein yeast HSP40 (YDJ1)
Target	HSP40
Preservatives	95.64mM Phosphate, 2.48mM MES and 2mM EDTA
Concentration	1 mg/ml
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Application notes	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.

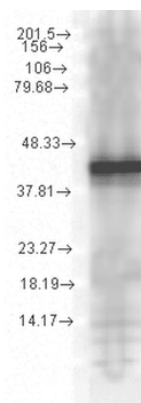
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Isotype	IgG1 Kappa
Clonality	Monoclonal
Clone Number	1G10.H8
MW	40kDa
Uniprot ID	P25491
NCBI	NP_014335.1
Entrez	855661
Dilution Range	WB (1:2000)
Expiration Date	12 months from date of receipt.



Western Blot analysis of Yeast Cell lysates showing detection of Hsp40 protein using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 1G10.H8. 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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