

Product Datasheet

HSP40, YDJ1 Antibody: HRP (orb147332)

Description	Mouse monoclonal to Hsp40, YDJ1 (HRP). 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	HRP
Tested Applications	ELISA, IHC, WB
Immunogen	Full length protein yeast HSP40 (YDJ1)
Target	HSP40
Preservatives	73.64mM Carbonate, 54.55mM Ethanolamine, 45.45mM Cyanoborohydride, 18.18mM Sodium Hydroxide and 0.23mM Citrate in dH2O
Concentration	1 mg/ml
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only

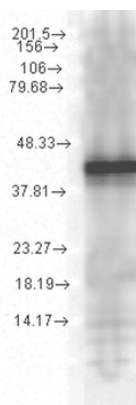
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Application notes	0.5 µg/ml of SMC-150 was sufficient for detection of 50 ng YDJ1 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Isotype	IgG1 Kappa
Clonality	Monoclonal
Clone Number	1G10.H8
MW	40kDa
Uniprot 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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