

Product Datasheet

HSP40, YDJ1 Antibody: APC (orb147601)

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. 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. ..

Species/Host

Mouse

Reactivity

Yeast

Conjugation

APC

Tested Applications

ICC, IF, IHC

Immunogen

Full length protein 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

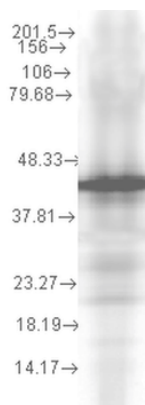
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Application notes	0.5 µg/ml of SMC-166 was sufficient for detection of 50 ng YDJ1 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Isotype	IgG1 Kappa
Clonality	Monoclonal
Clone Number	2A7.H6
MW	40kDa
Uniprot 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 recombinant cell lysate showing detection of Hsp40 protein using Mouse Anti-Hsp40 Monoclonal Antibody, Clone 2A7.H6. 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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